



NASA'S
FUTURE FORUM

WELCOME

Chicago



NASA'S FUTURE FORUM

The Honorable Shana Dale
NASA Deputy Administrator

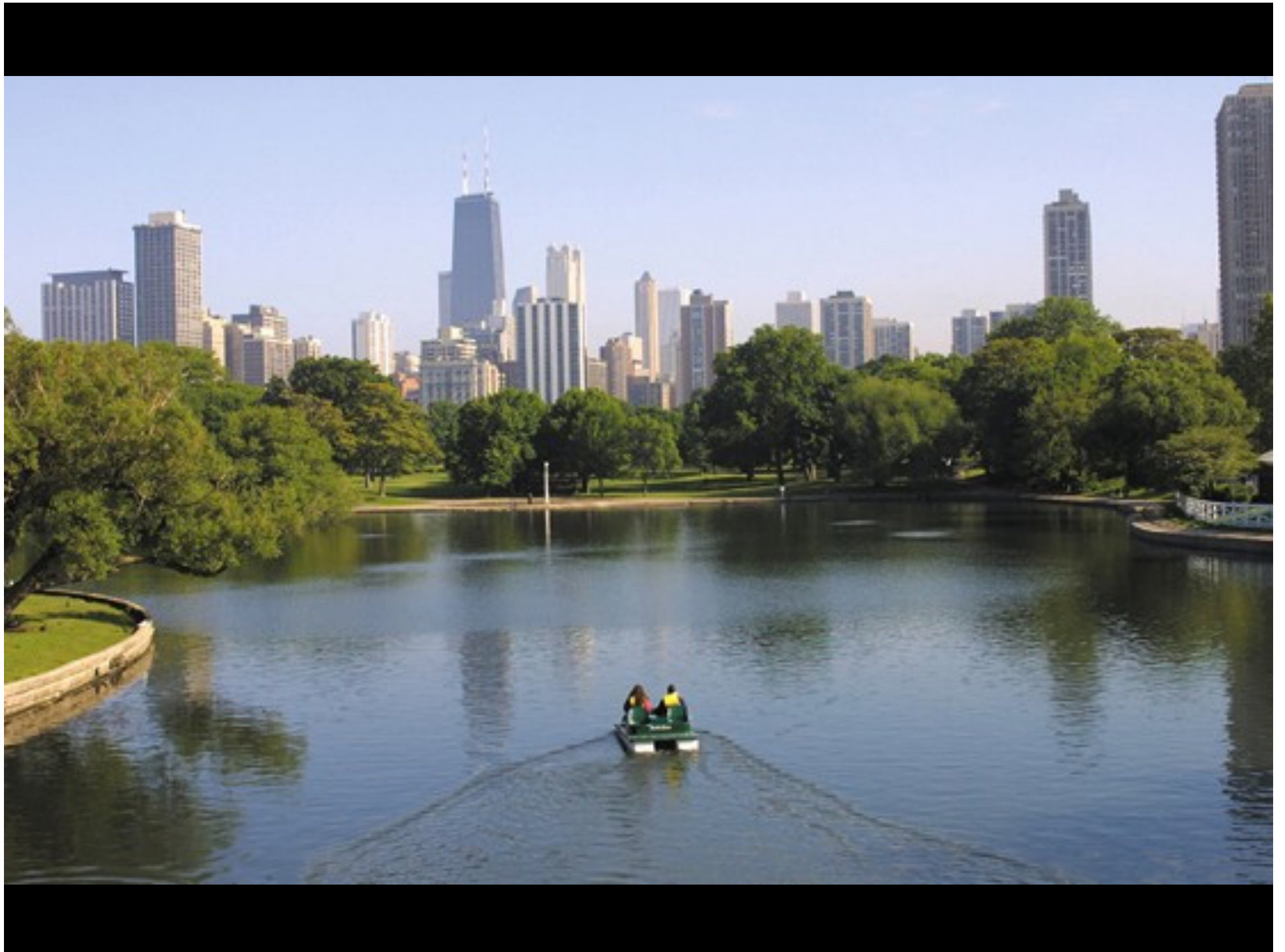
Chicago



NASA'S
FUTURE FORUM

ADLER
PLANETARIUM

Chicago











Raytheon

JE[®] JACOBS



NORTEL



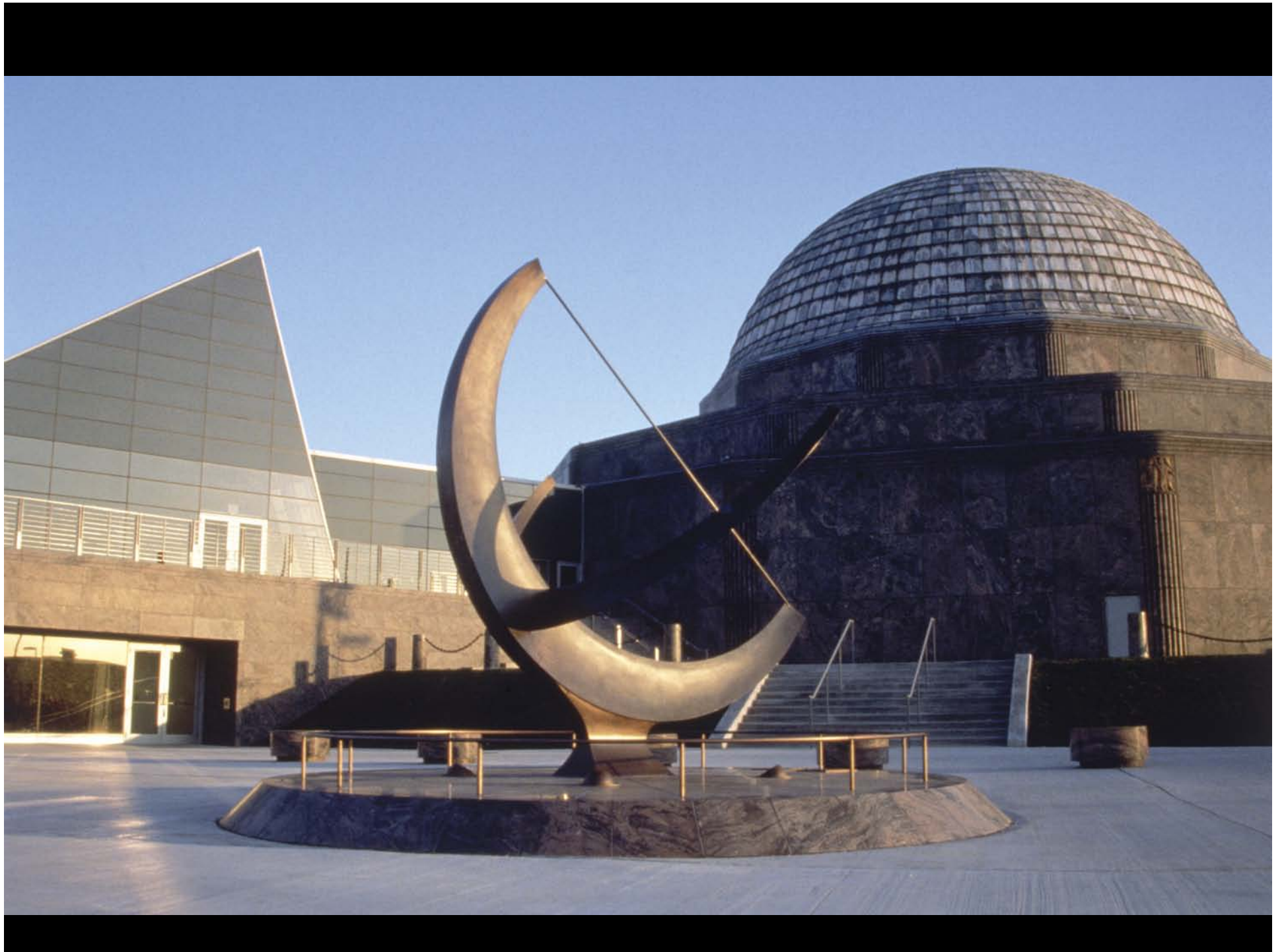


ADLER

AMERICA'S FIRST PLANETARIUM

Established 1930





Ernest Grunsfeld, Jr

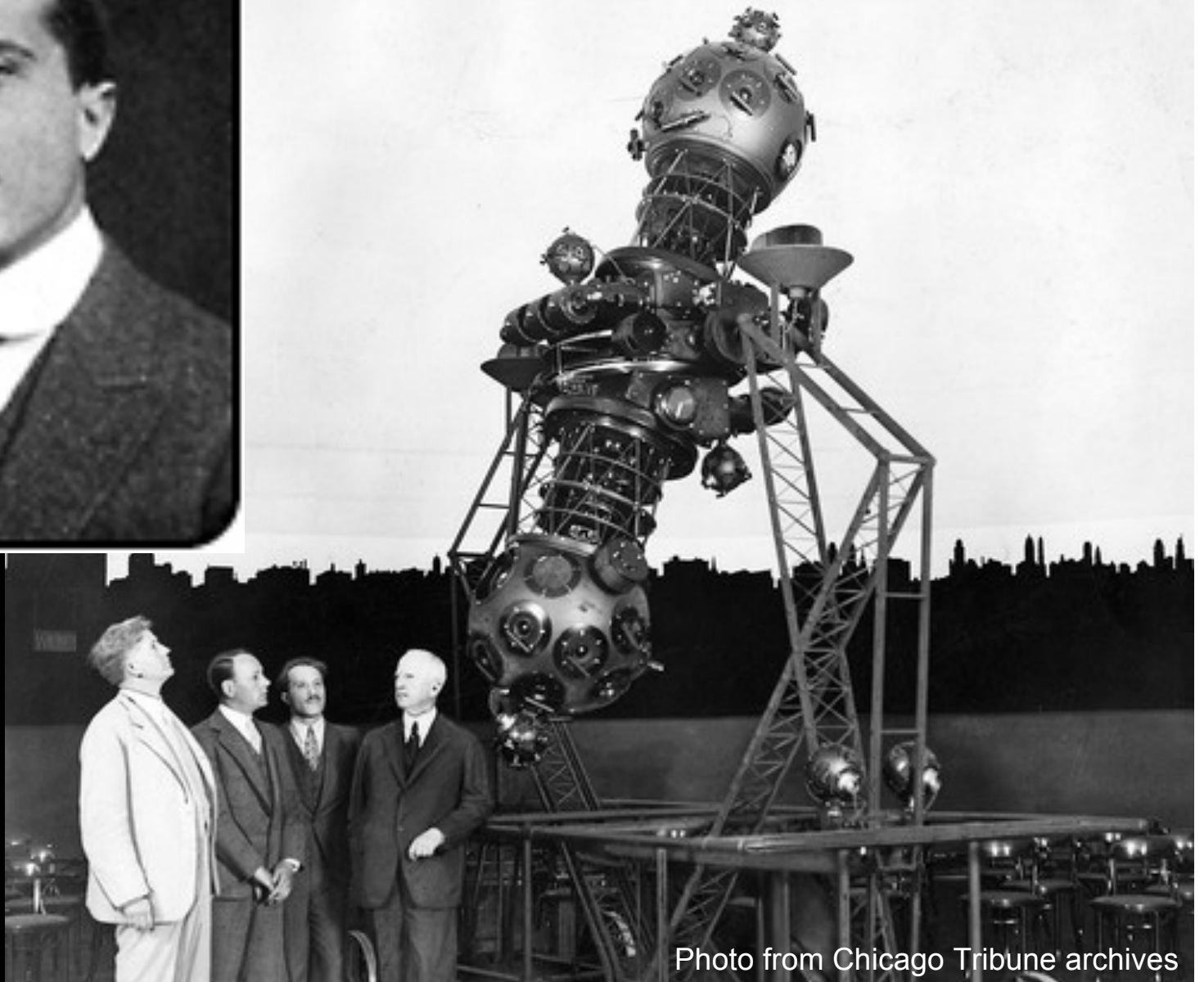


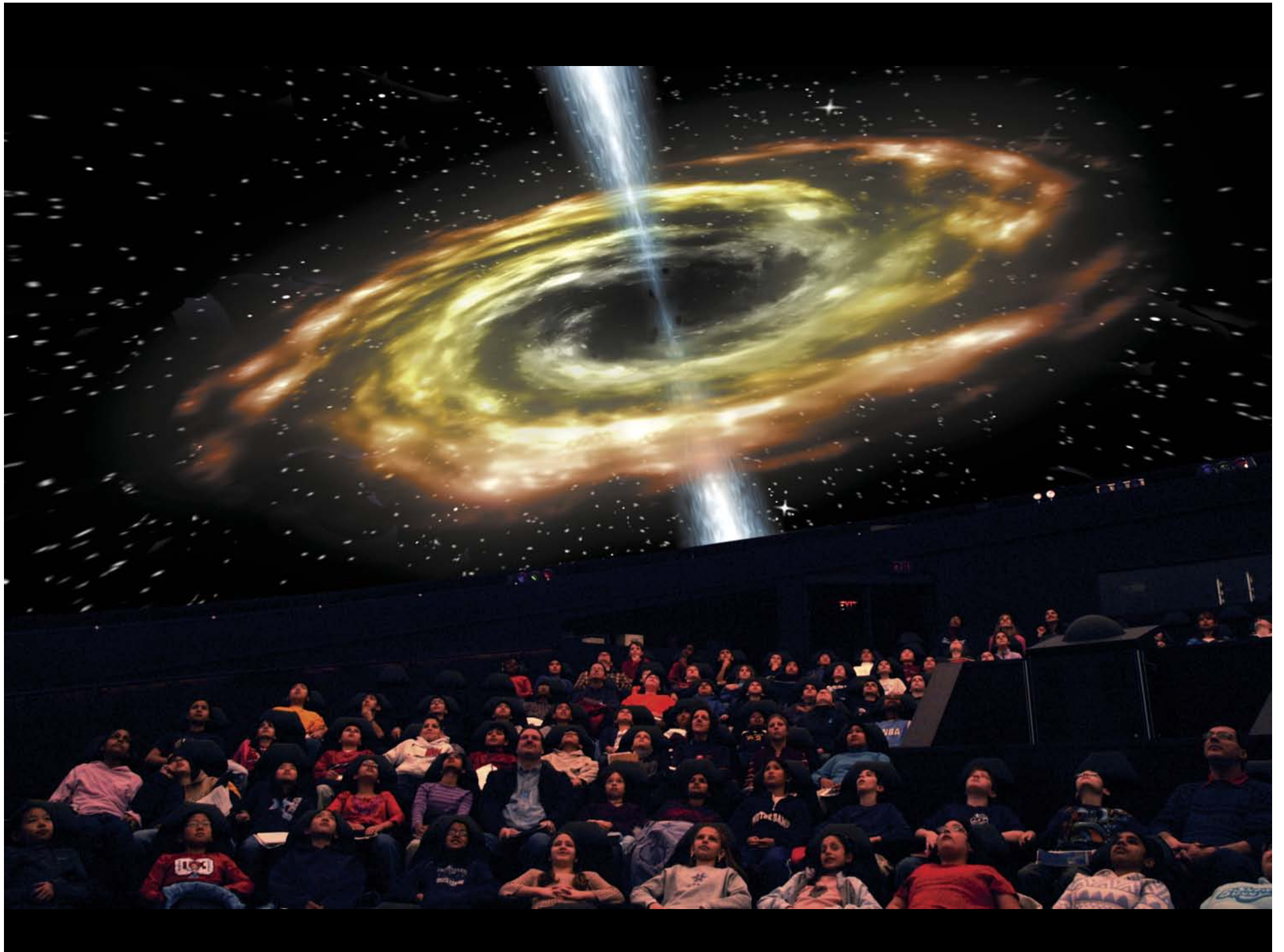
Photo from Chicago Tribune archives



**Astronaut
John Grunsfeld**

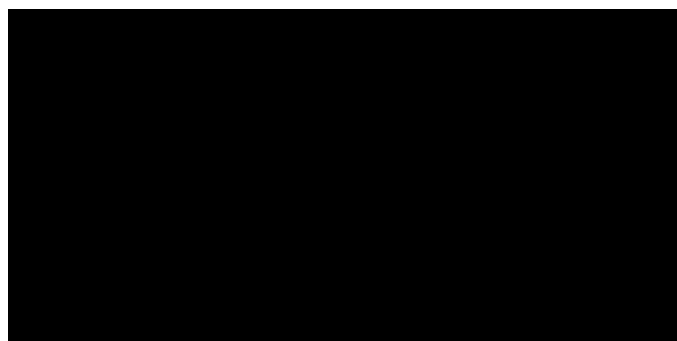




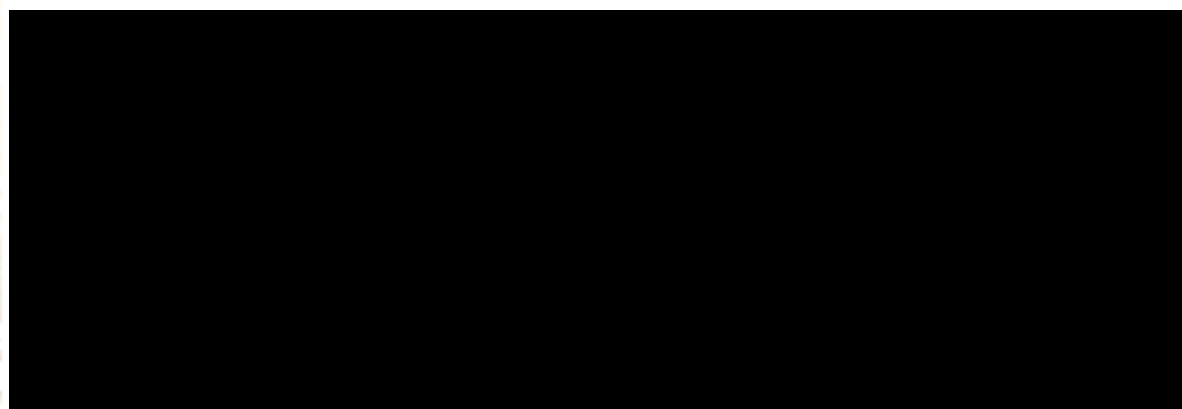


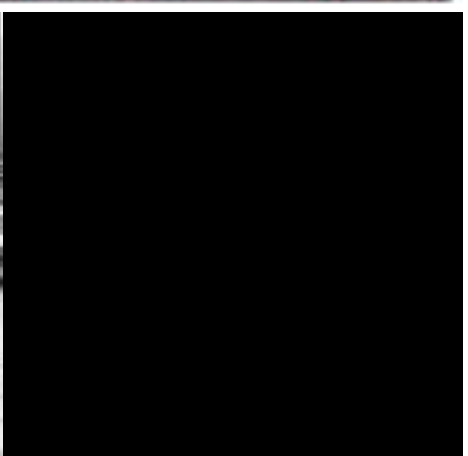
Astronaut Scott Altman



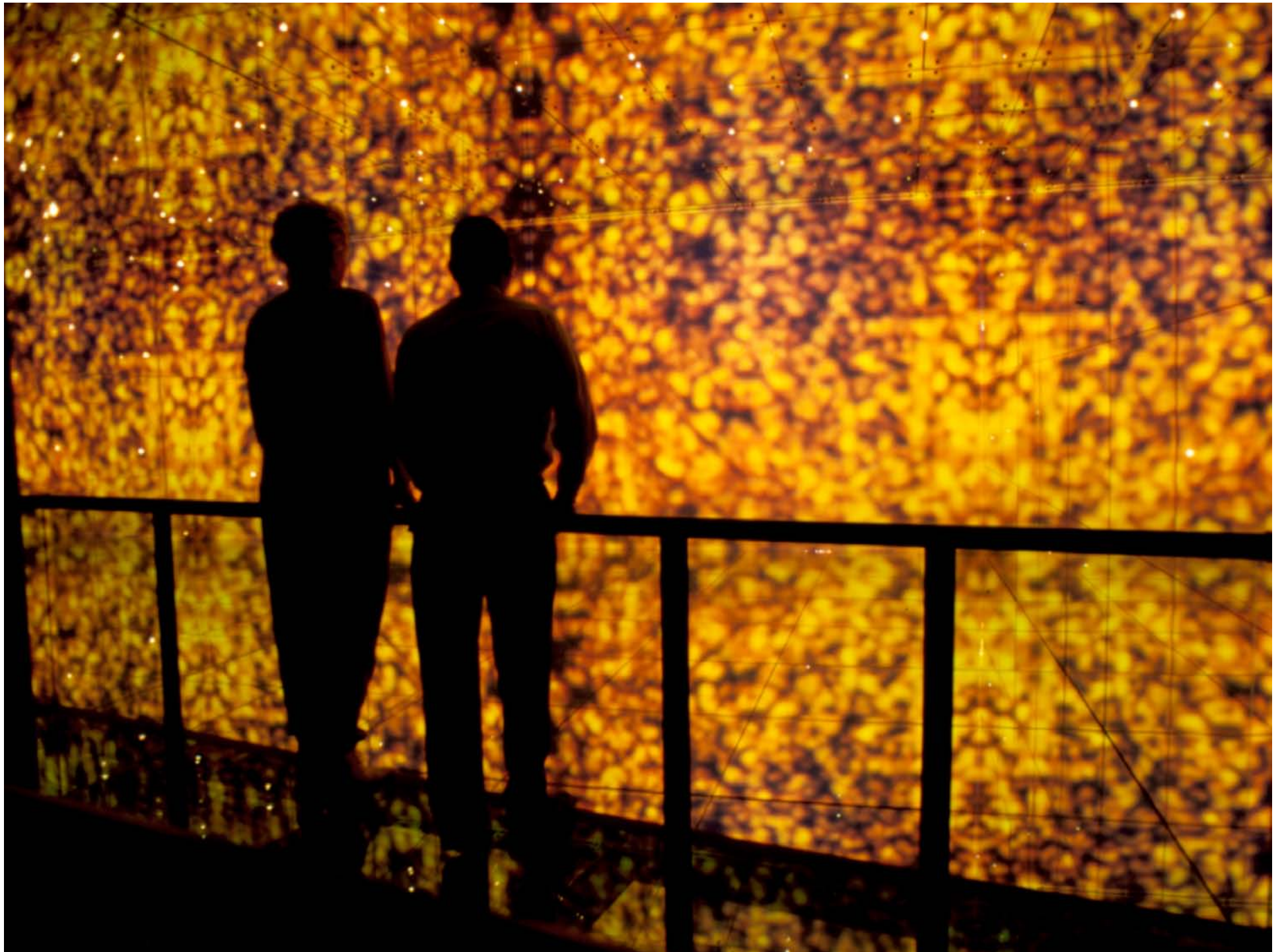


A View of the Fair













Chicago from Space - Day



Chicago from Space - Night

5

YEARS



Inspiration

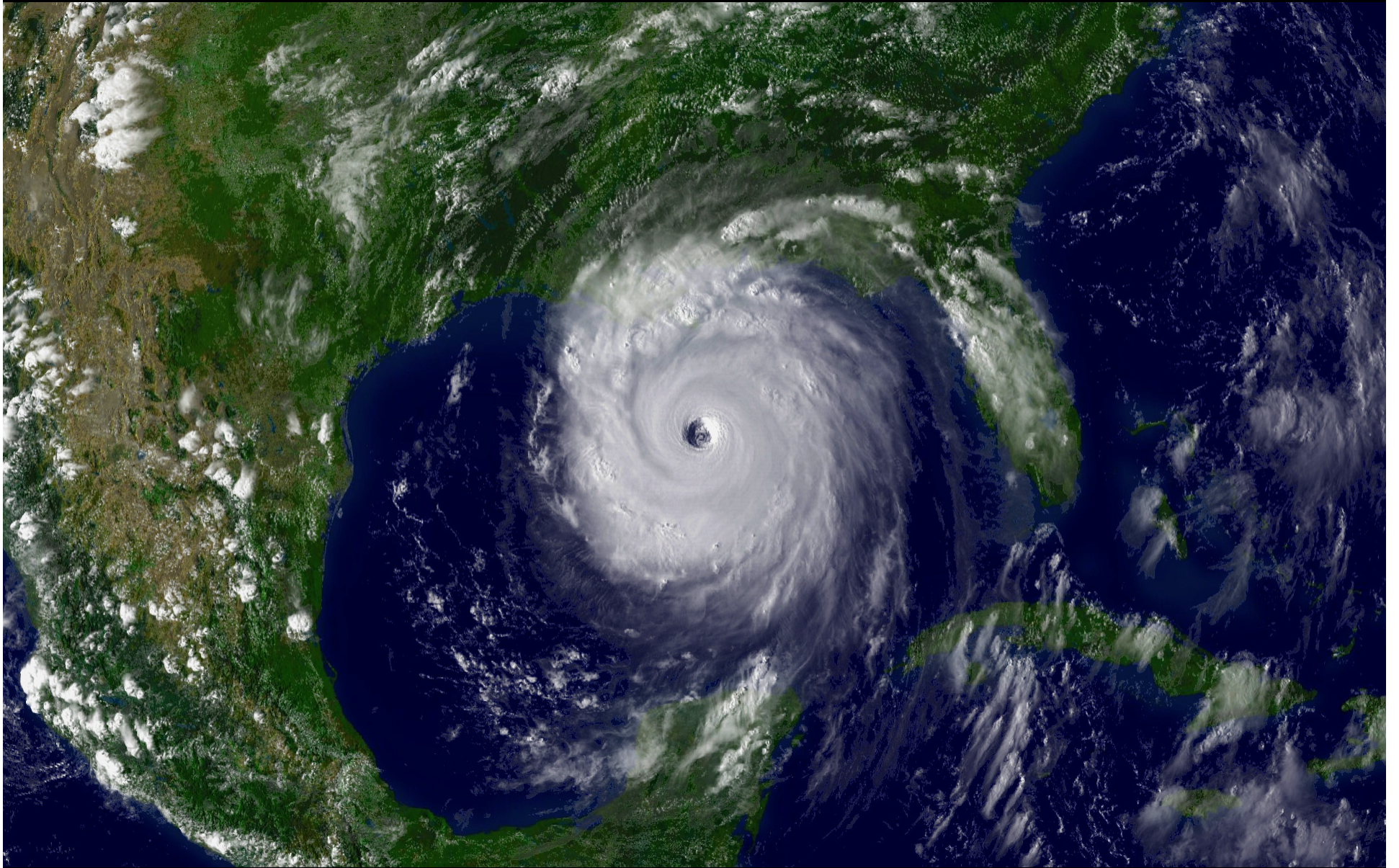
Innovation

Discovery

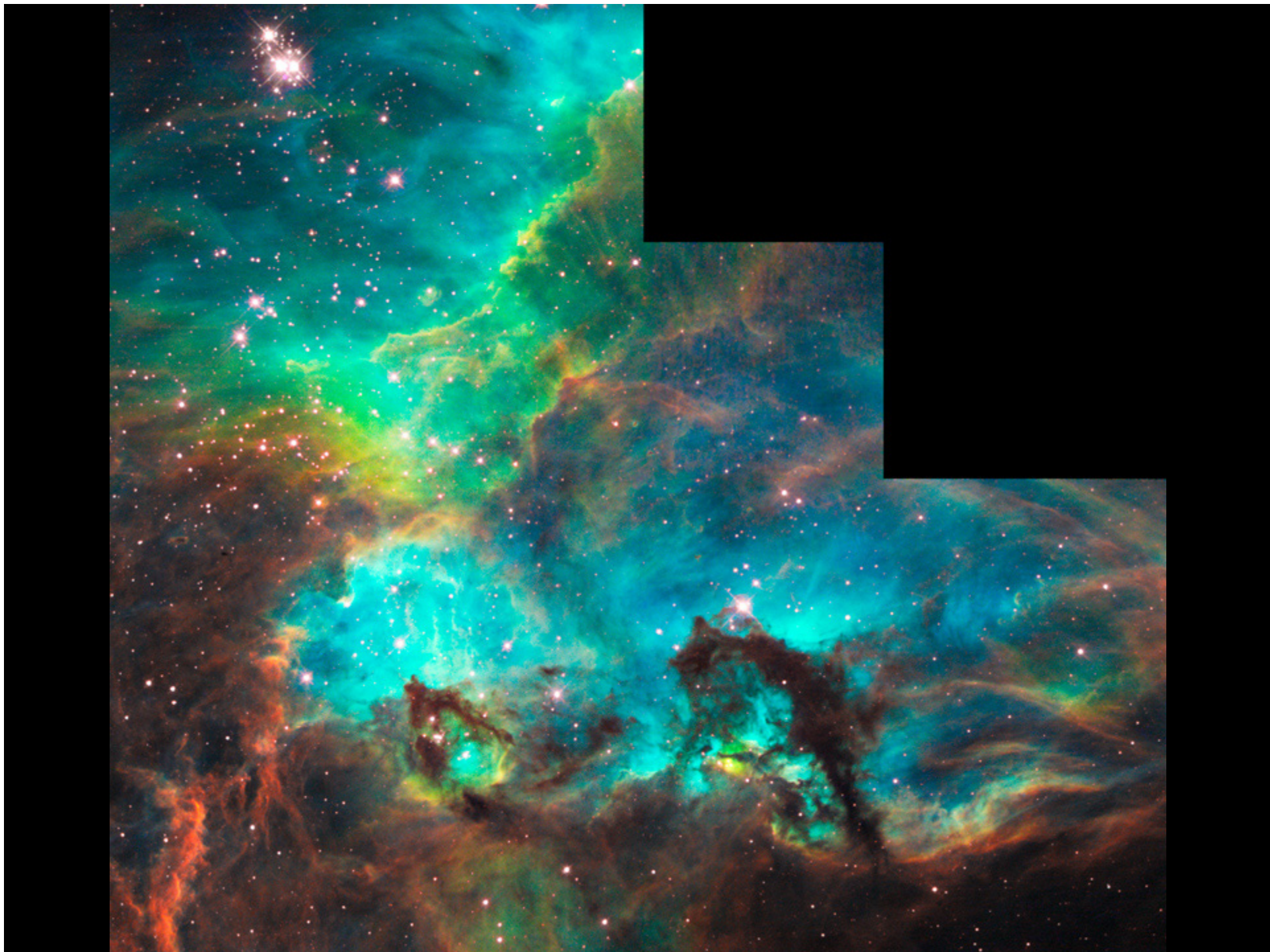
...Future

A close-up photograph of Alan Shepard wearing his space helmet. The helmet's visor is clear, showing his face. The helmet has a silver-colored metal rim and a black strap. The background is dark and out of focus, with some white lights visible at the top. The text "Alan Shepard: First American in space" is overlaid in white on the right side of the image.

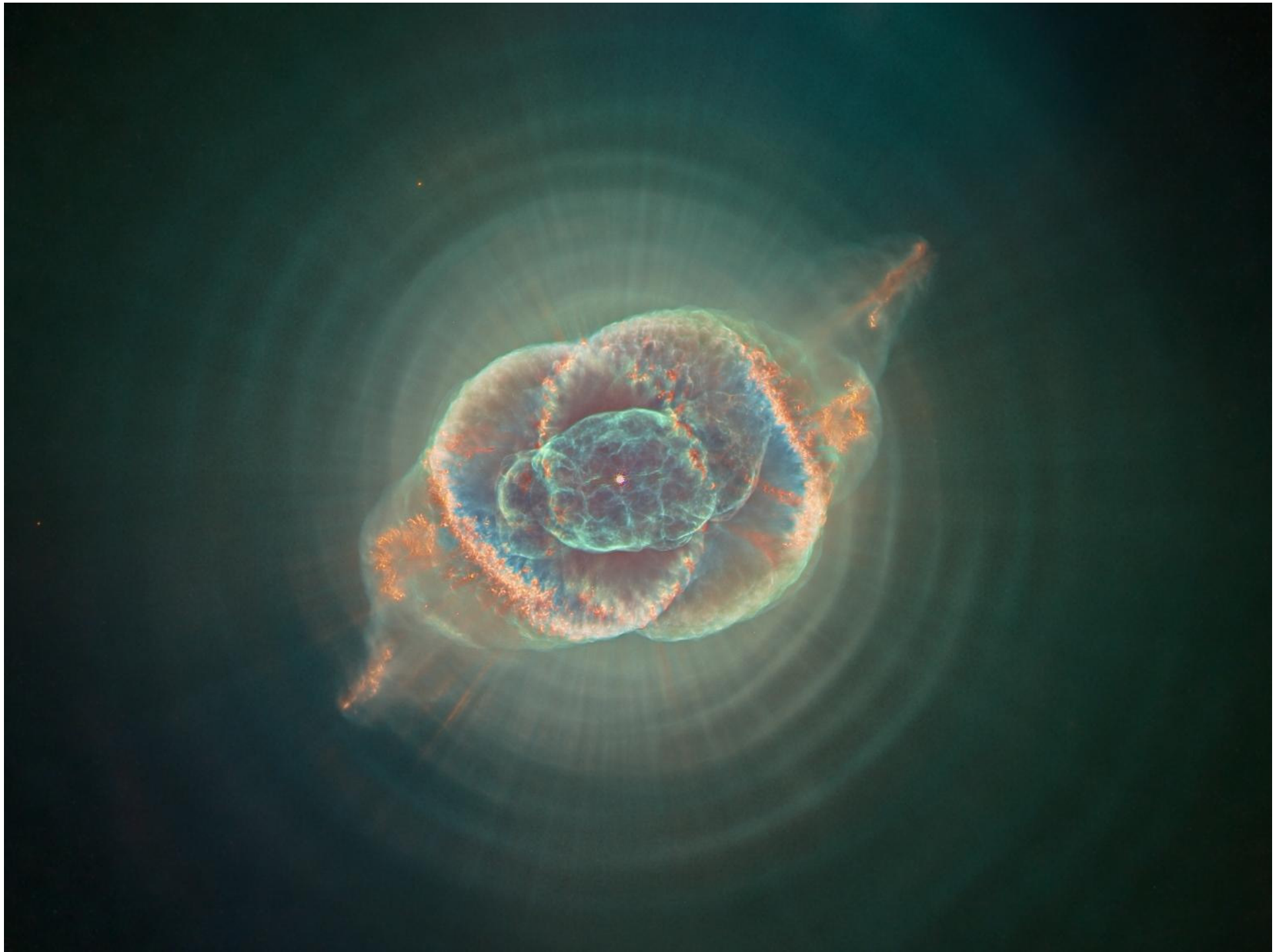
**Alan Shepard:
First American in space**















NASA'S FUTURE FORUM

The Space Economy

Chicago





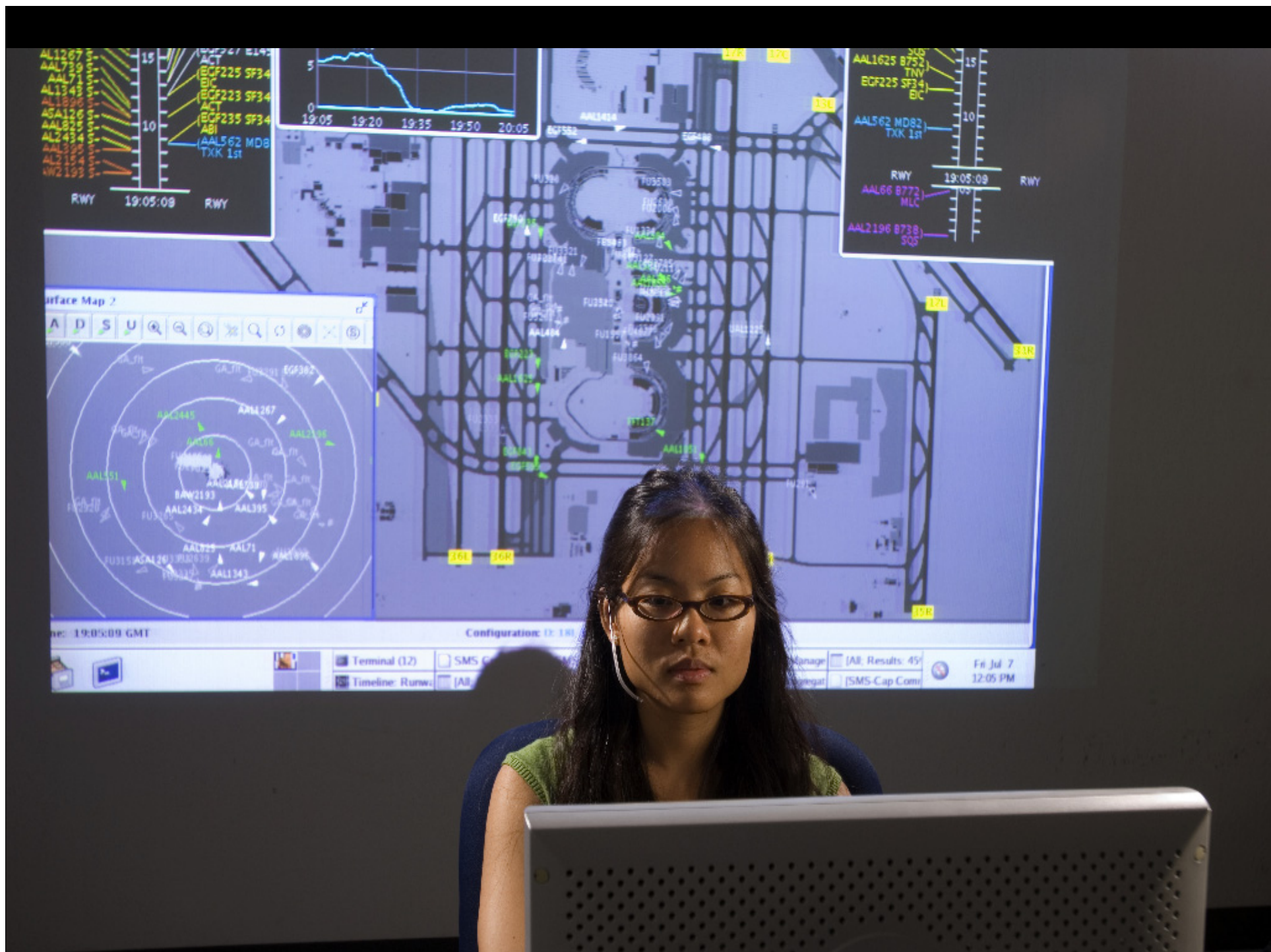
The LaSalle Bank
**Chicago
Marathon**



30 Years of Inspiration
OCTOBER 07, 2007



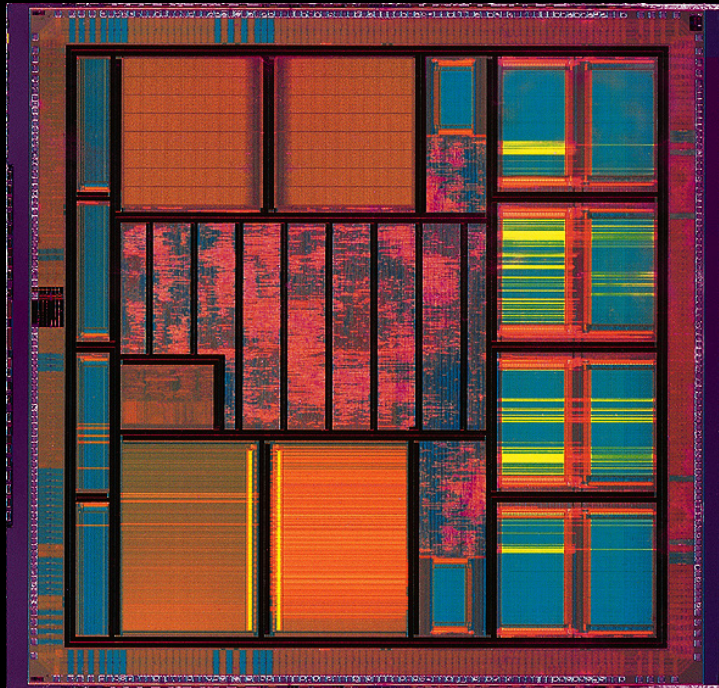
Cumulonimbus Cloud over Africa - 2/5/2008







Integrated Circuit

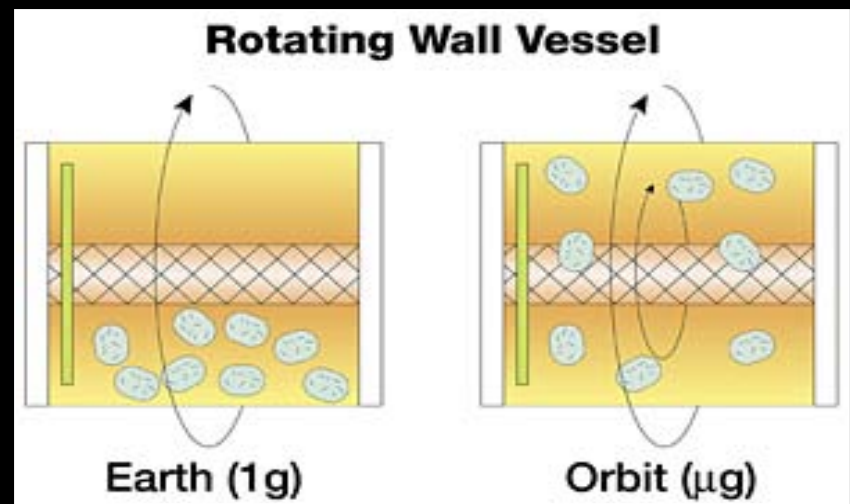
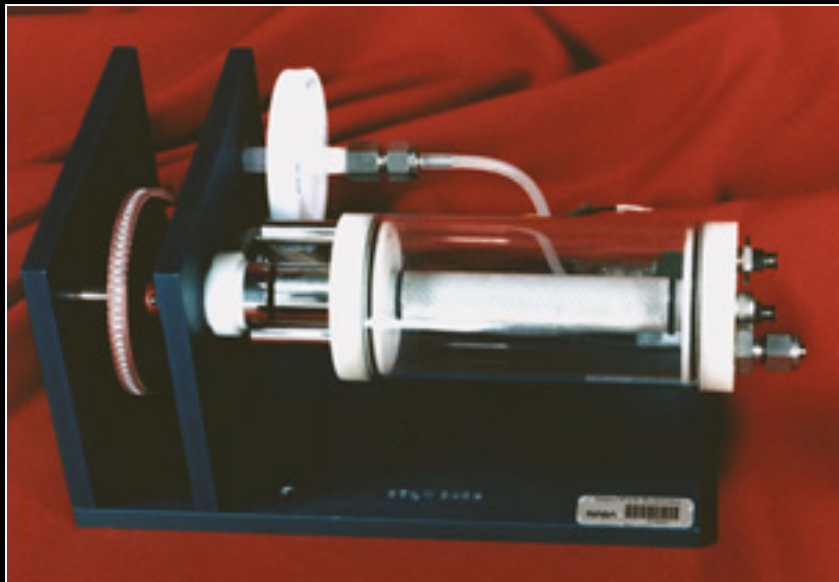


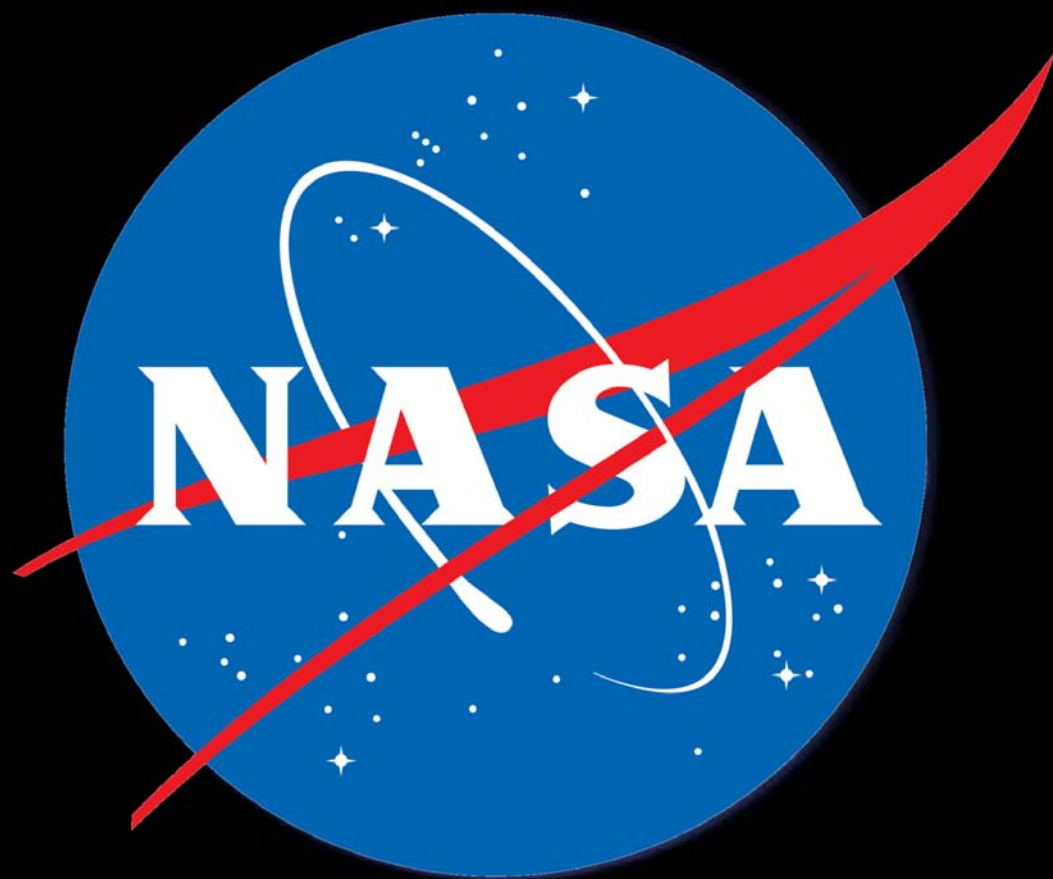


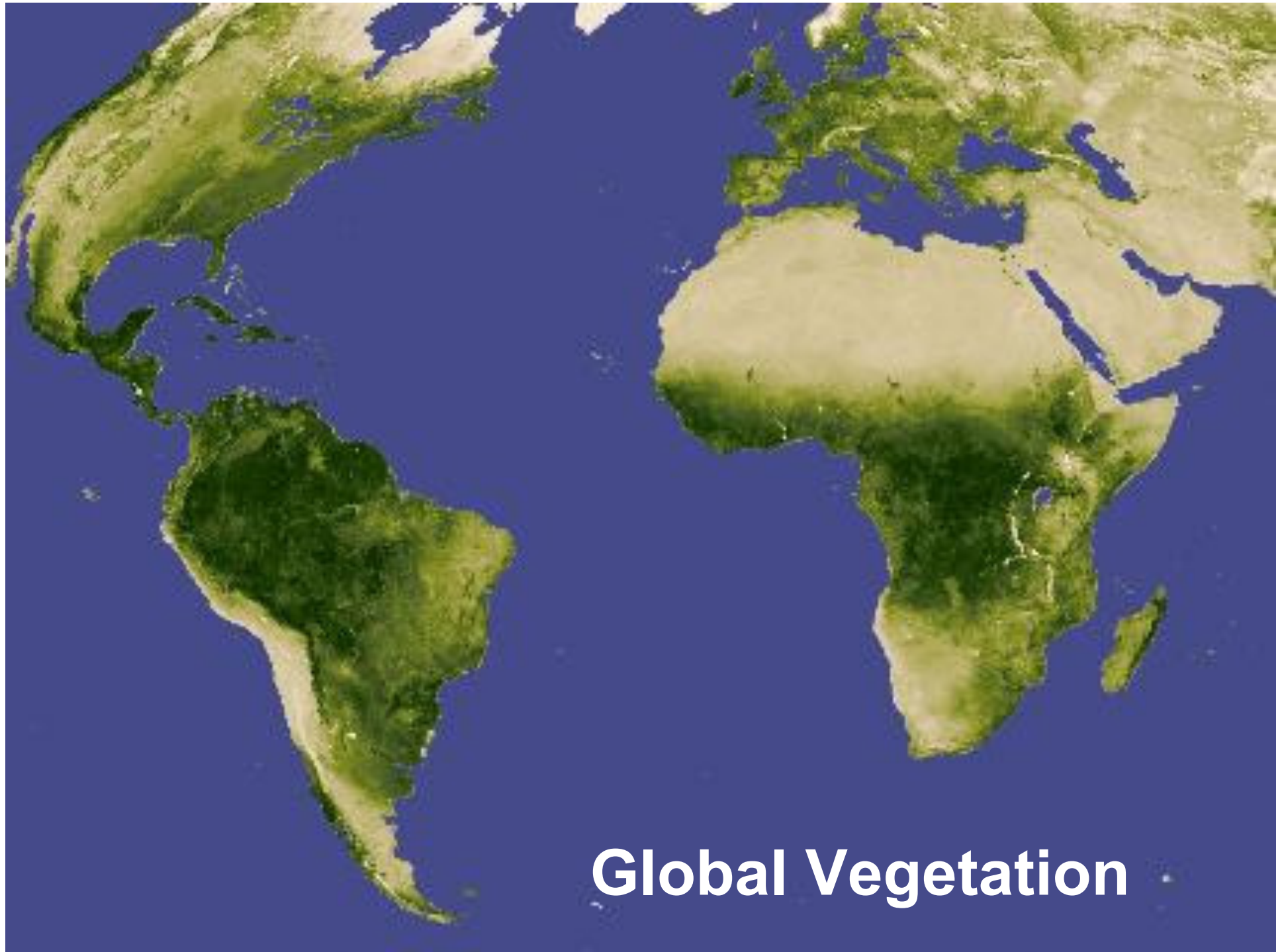
Solar Cells



NASA-Tested Suit Helps Olympians Crush Records







Global Vegetation





**Chicago
from
Space**



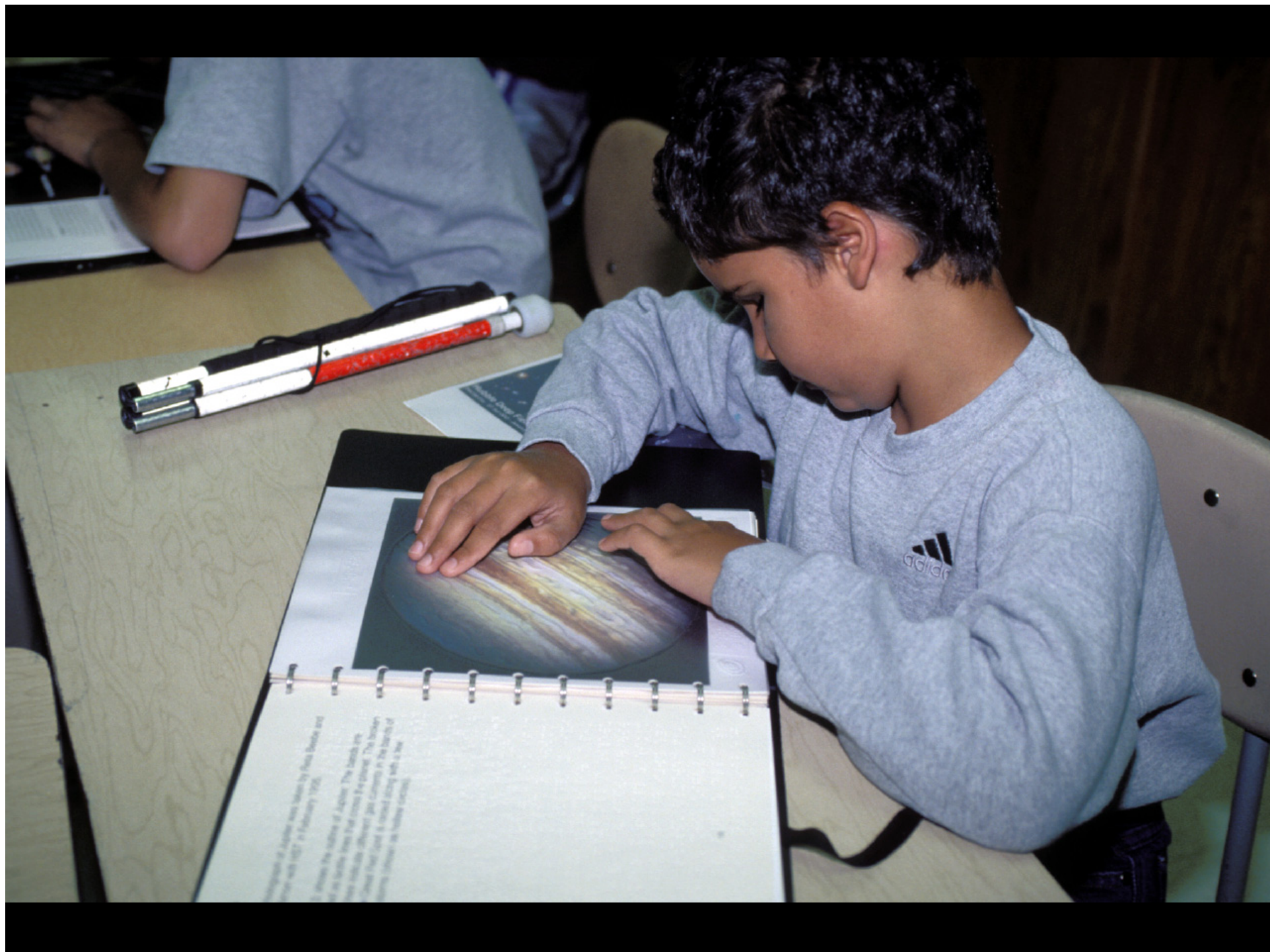


**Illinois
Astronaut
Heroes**



Photo: Lloyd DeGrane

On Tuesday, University of Chicago's Professor Yoichiro Nambu
Awarded 2008 Nobel Prize in Physics



Professor Hawking and Daughter, Lucy



Northwestern University



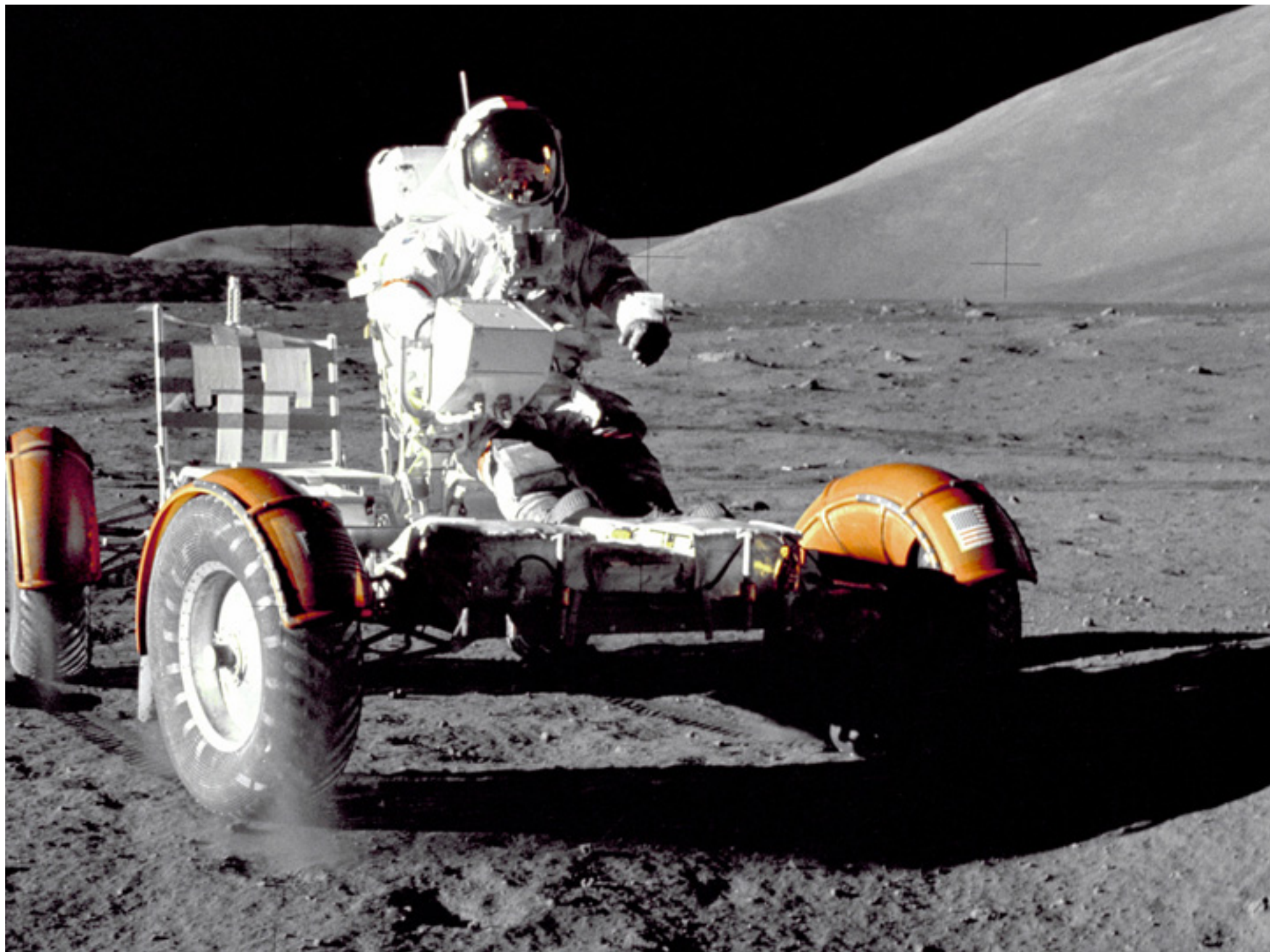
Igniting imaginations



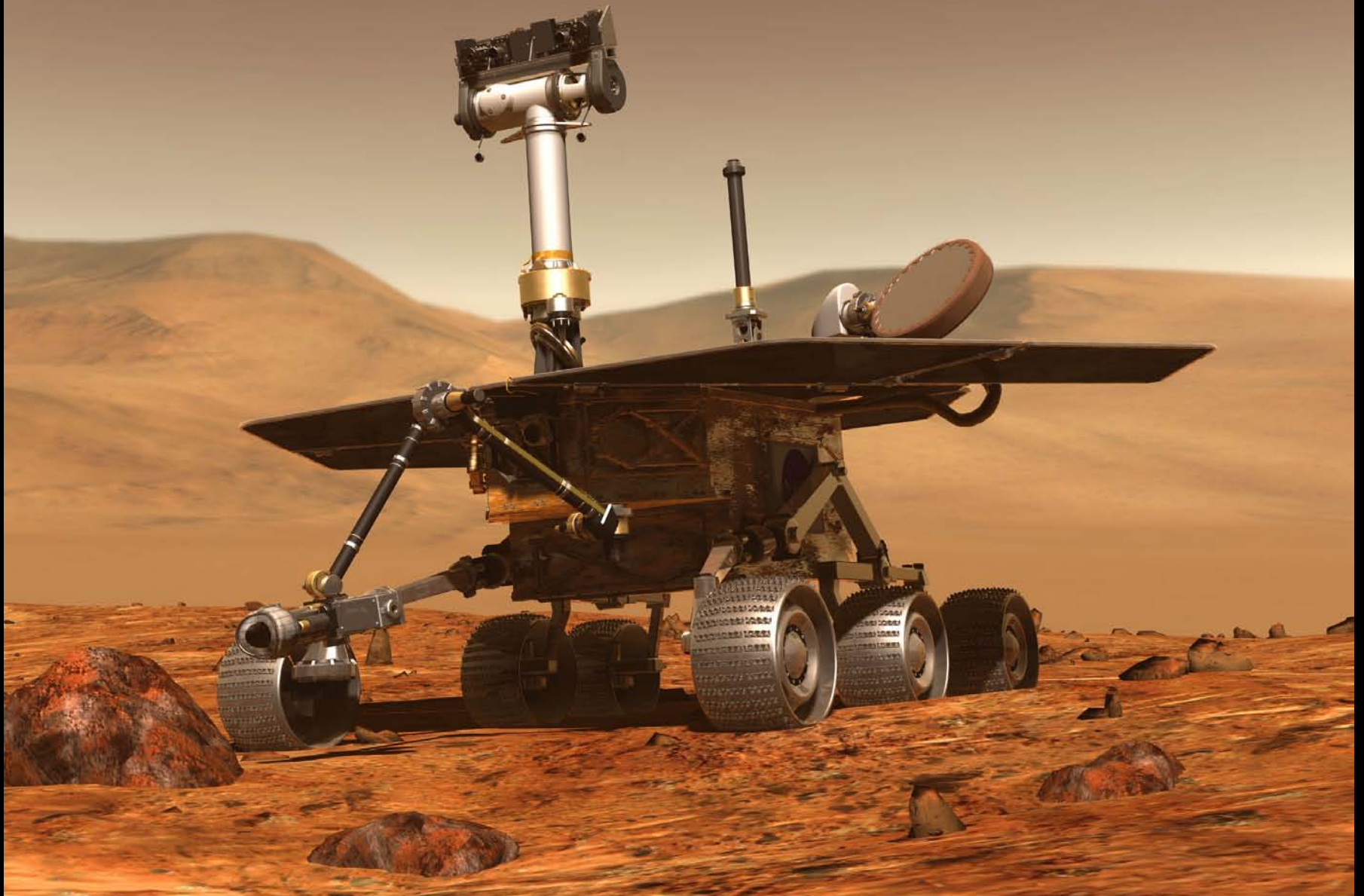


Inspiration Leads Directly to Innovation

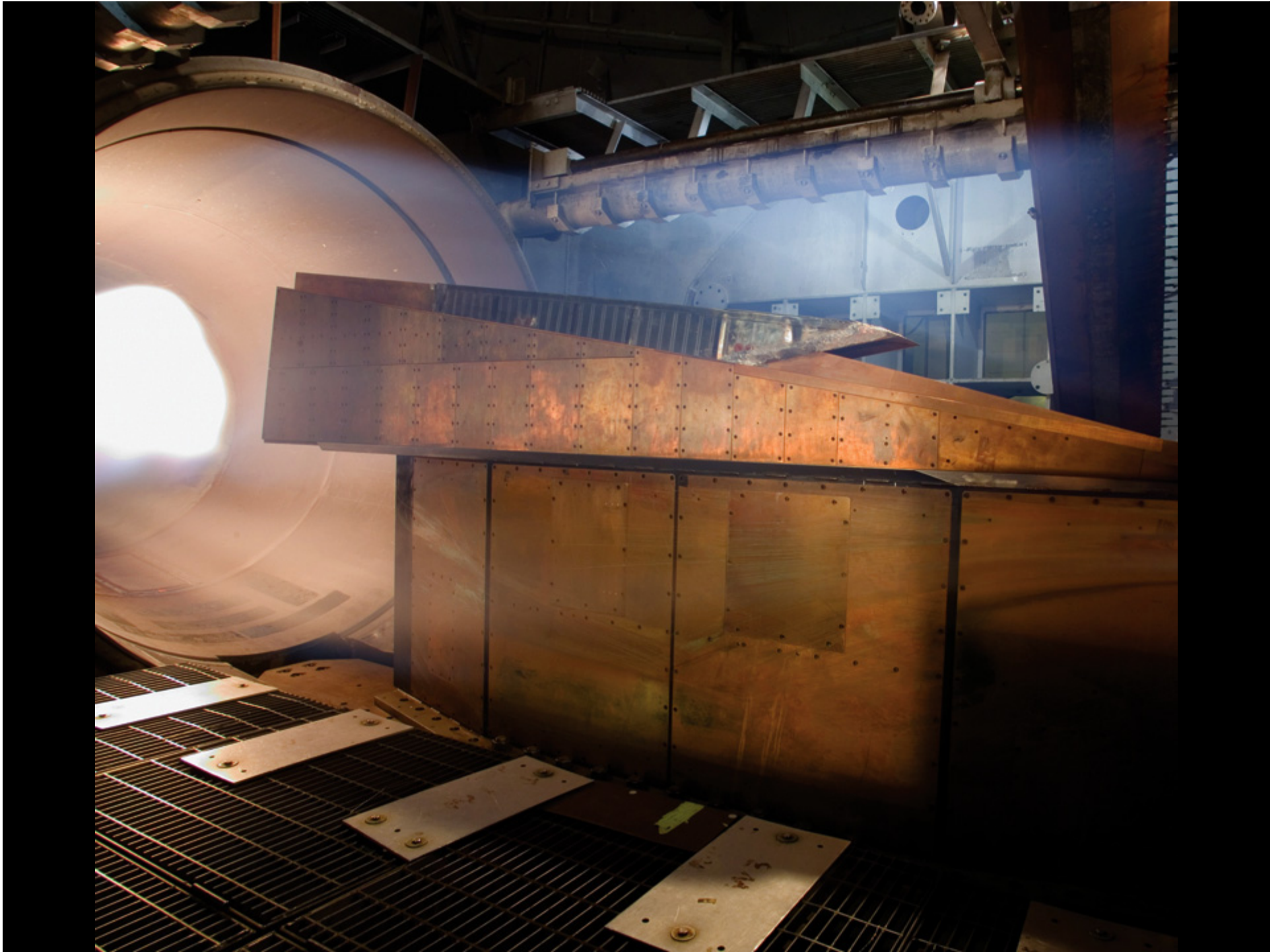


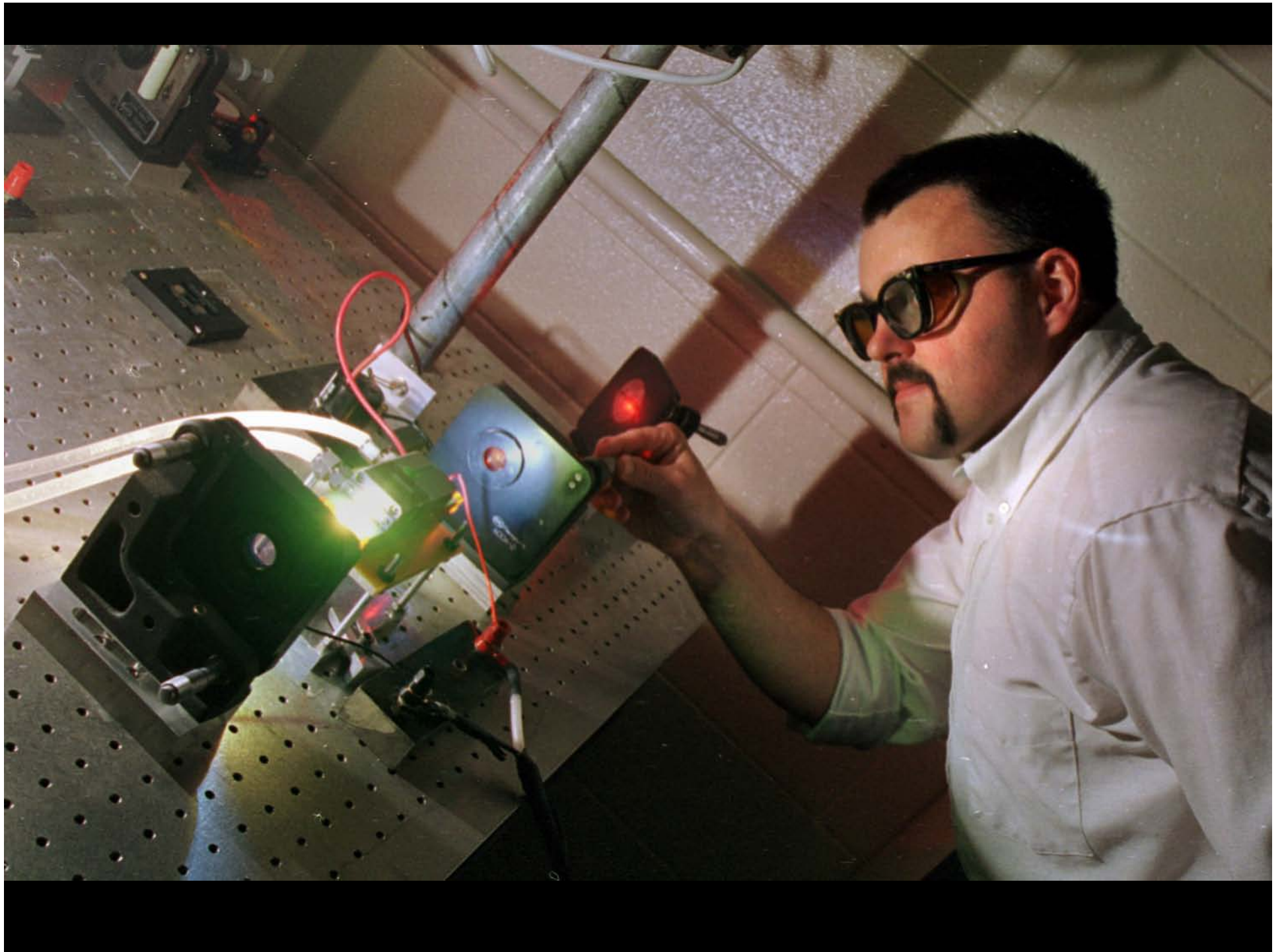


Mars Rover: Opportunity

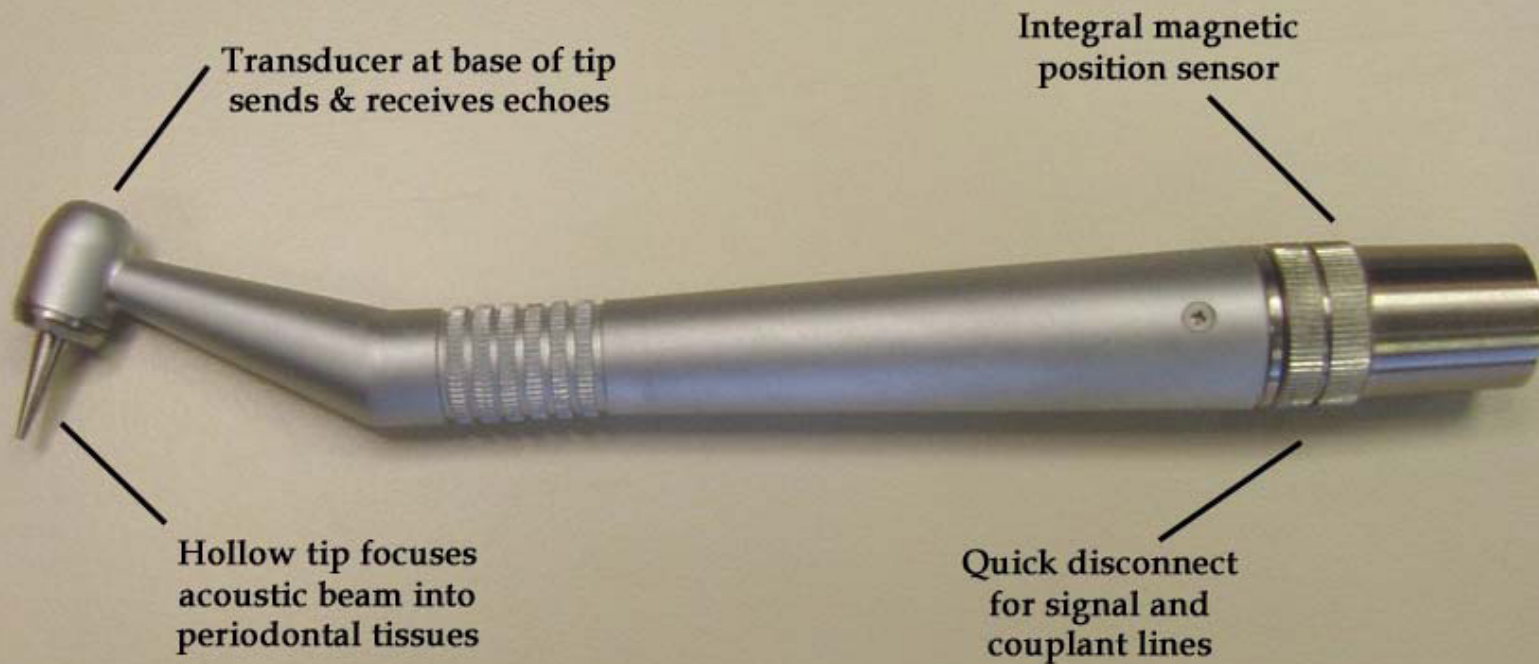








UltraSonographic Periodontal Probe



National Aeronautics and Space Administration



SPINOFF



50 YEARS OF NASA-DERIVED TECHNOLOGIES (1958-2008)



2008







Chicago's O'Hare from International Space Station



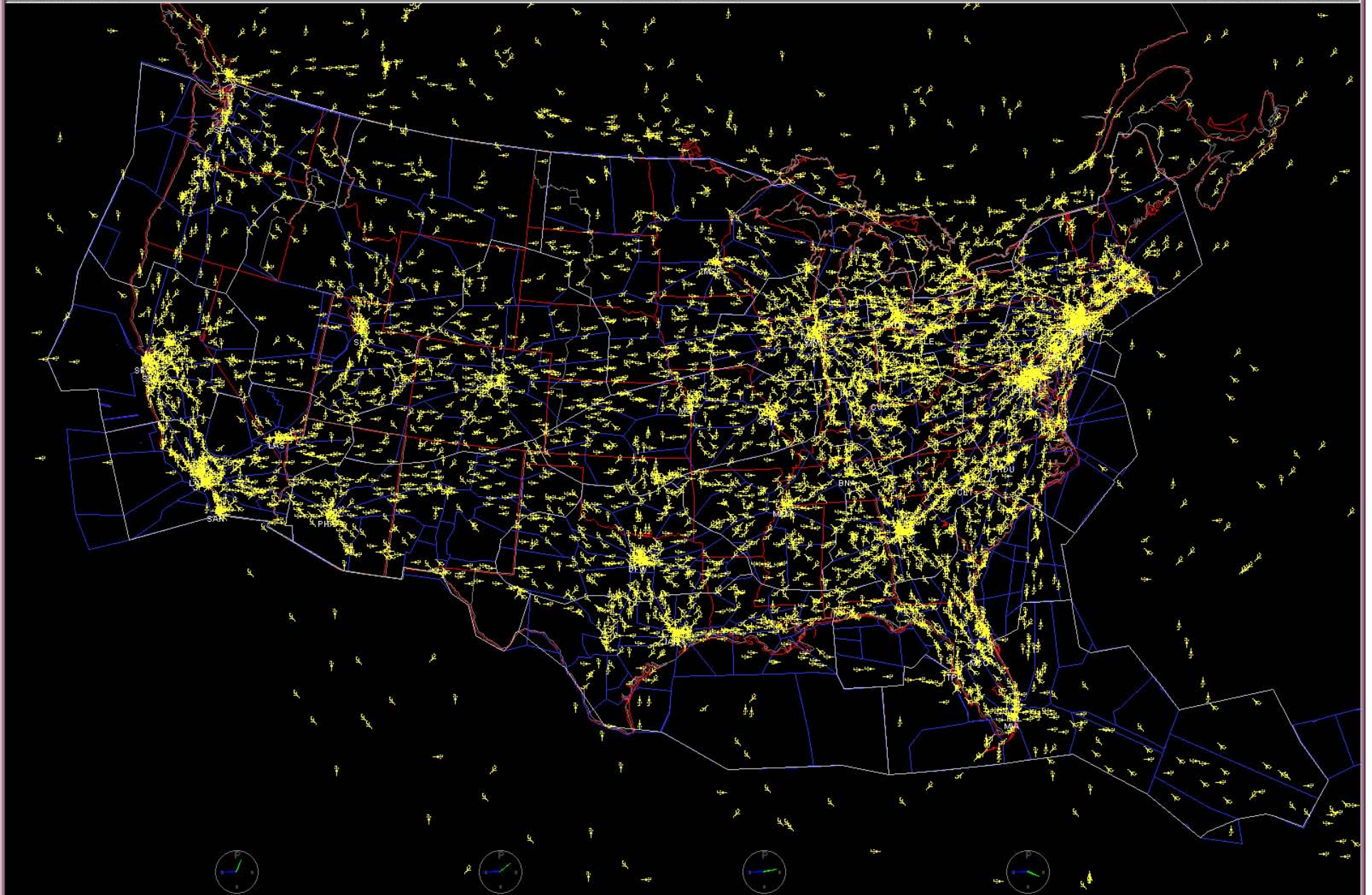


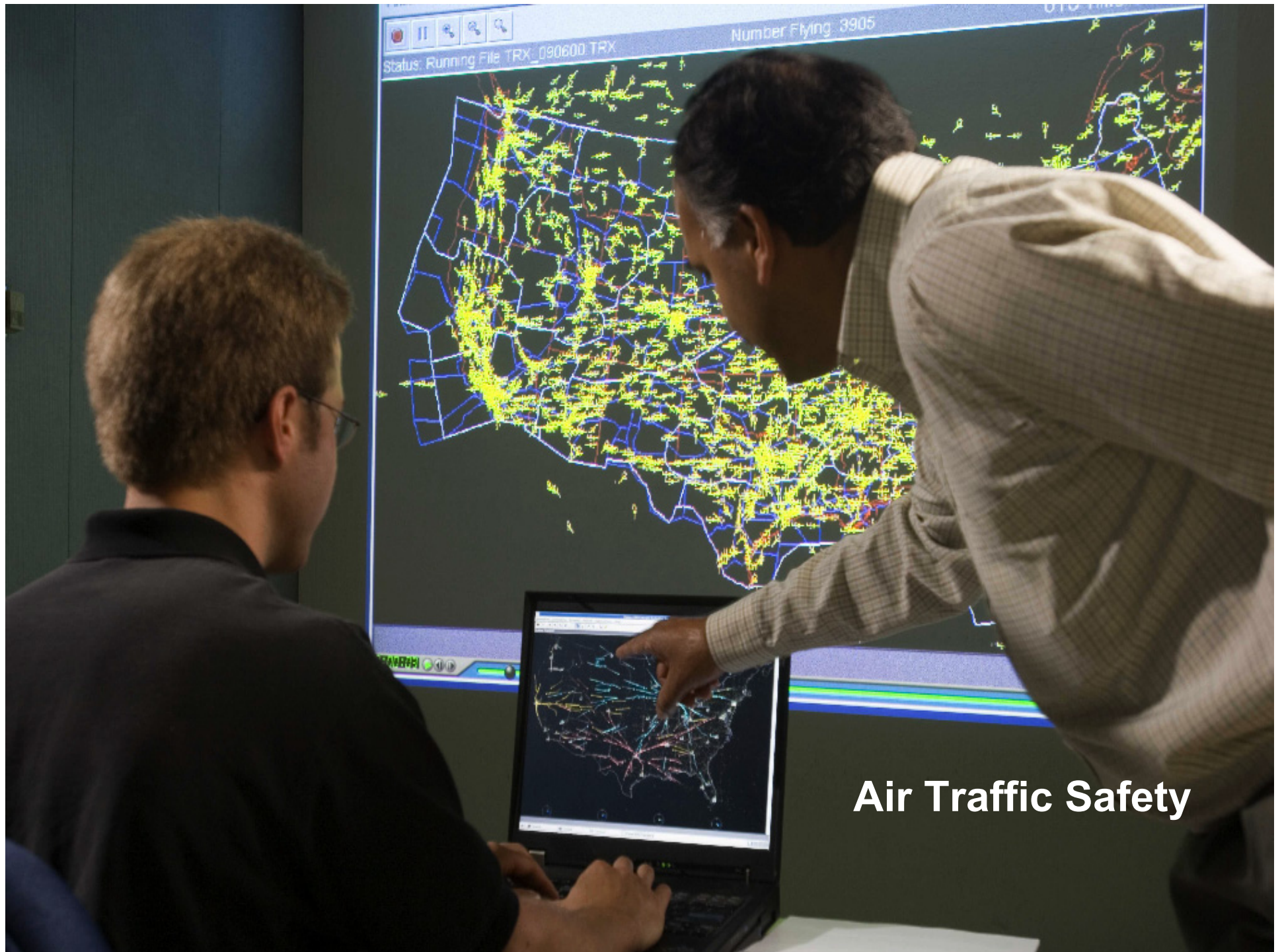


Status: Running live

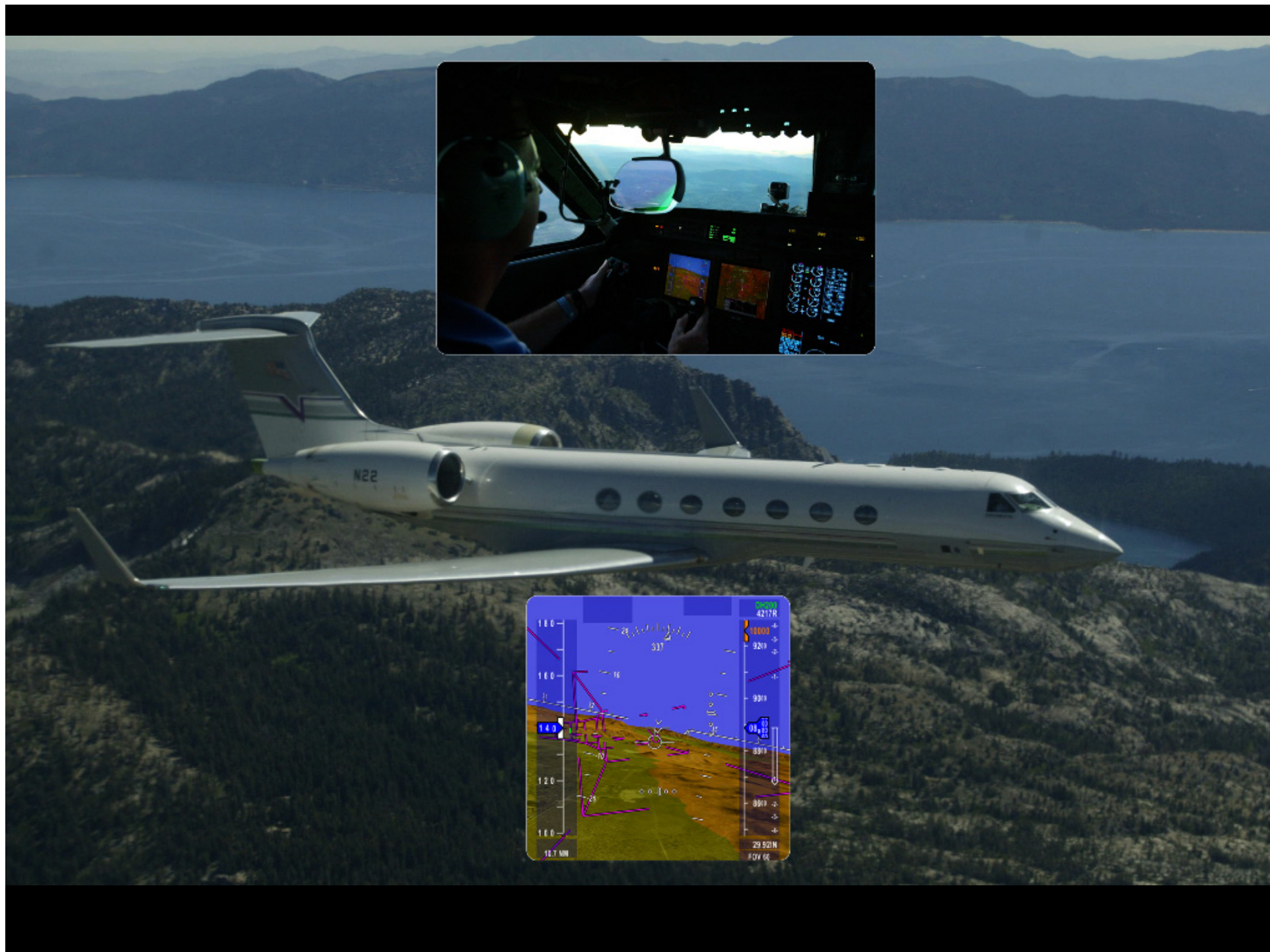
Number Flying: 5489

7/10/2006 19:45:32 UTC



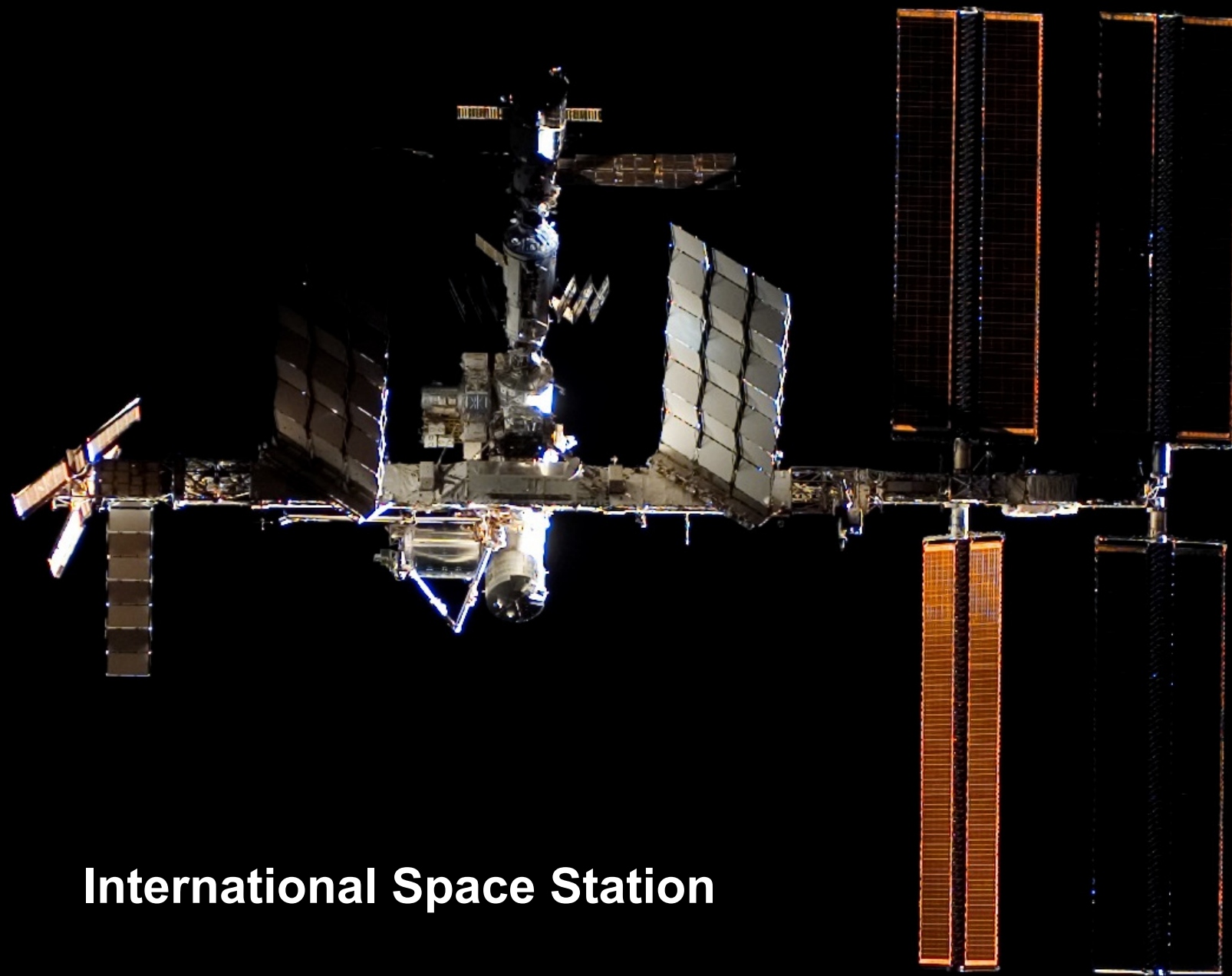


Air Traffic Safety



Winglet

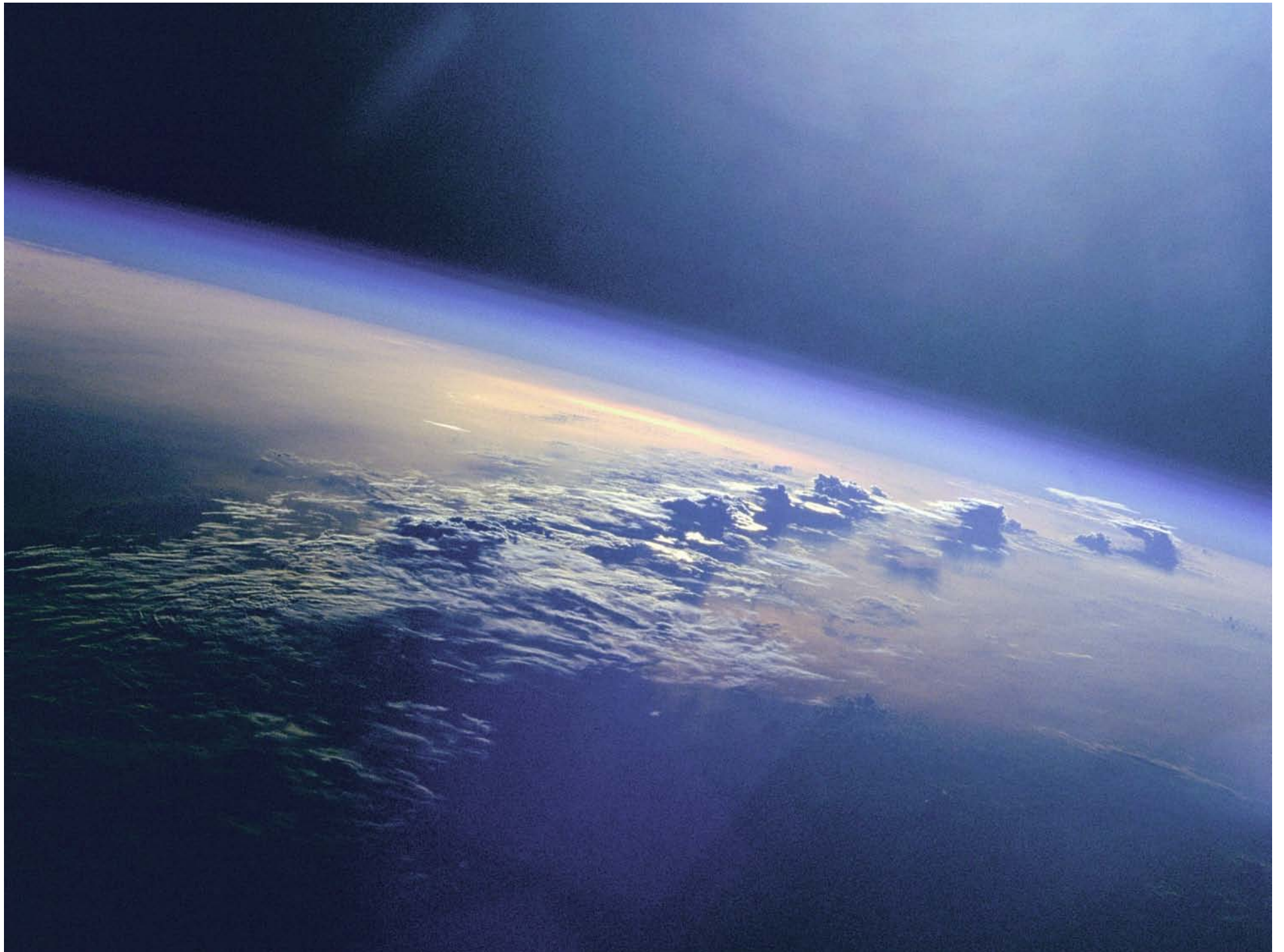




International Space Station

Clean water in Sabana San Juan, in the Dominican Republic





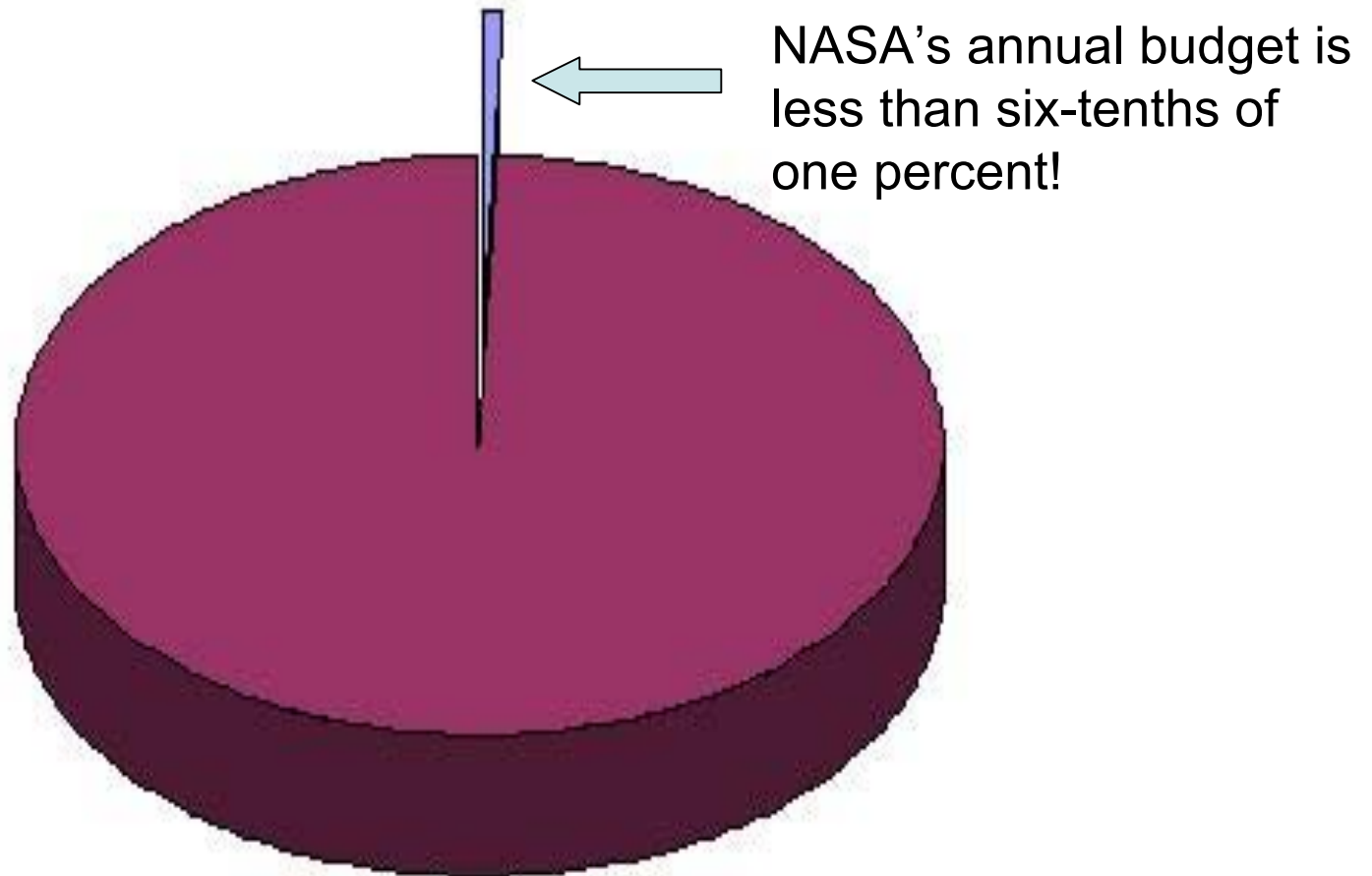
Chicago from International Space Station



ISS016F018618



NASA's Annual Budget as a Percentage of the Total Annual Federal Budget - FY 2008







**Constellation:
Ares I and Ares V**



Cain Tubular Products, Inc.



Hamilton Sundstrand

A United Technologies Company



Smalley®
Steel Ring Company

Snap-on Industrial



The Caldwell Group



SCOT
INCORPORATED

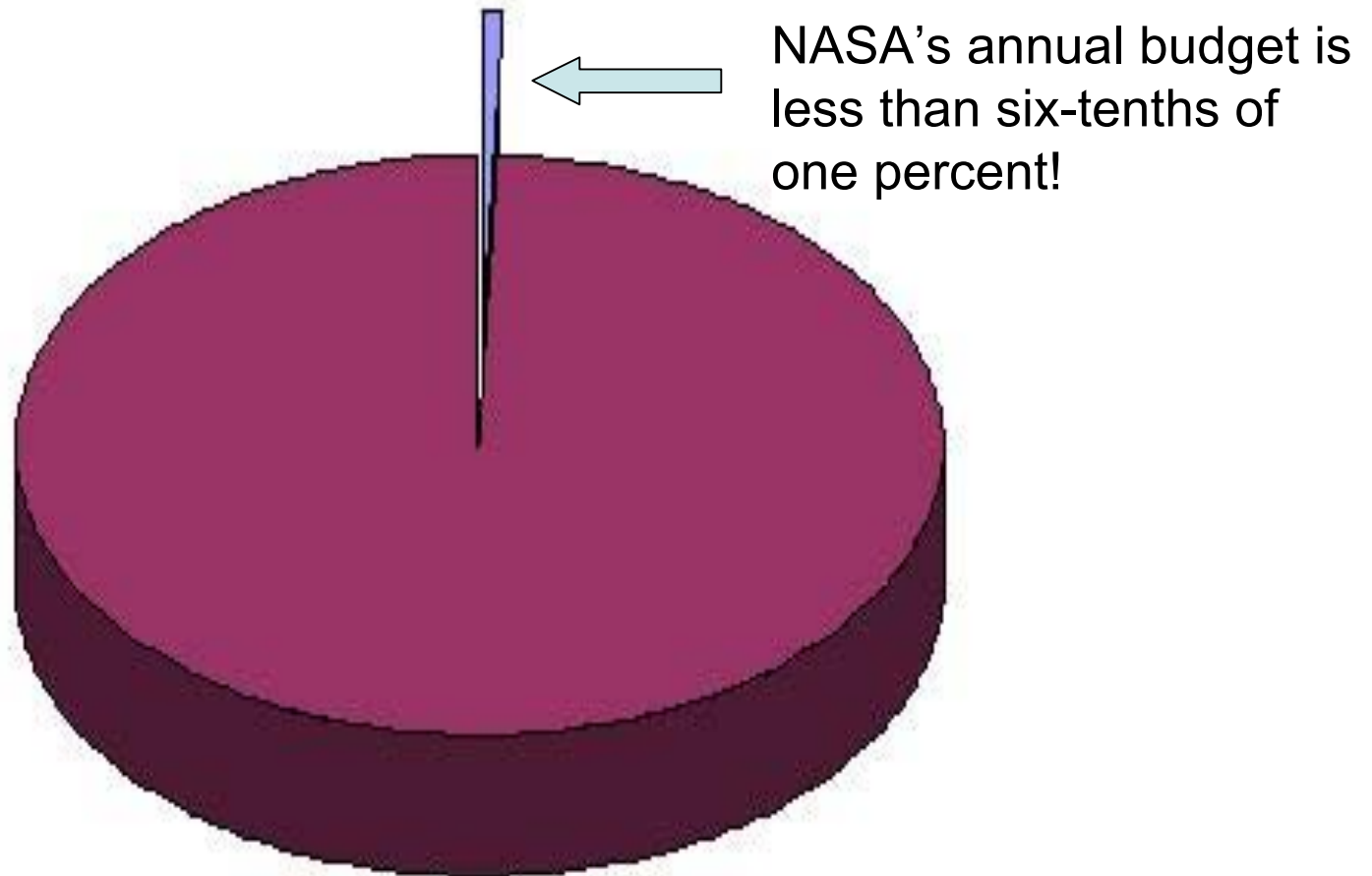


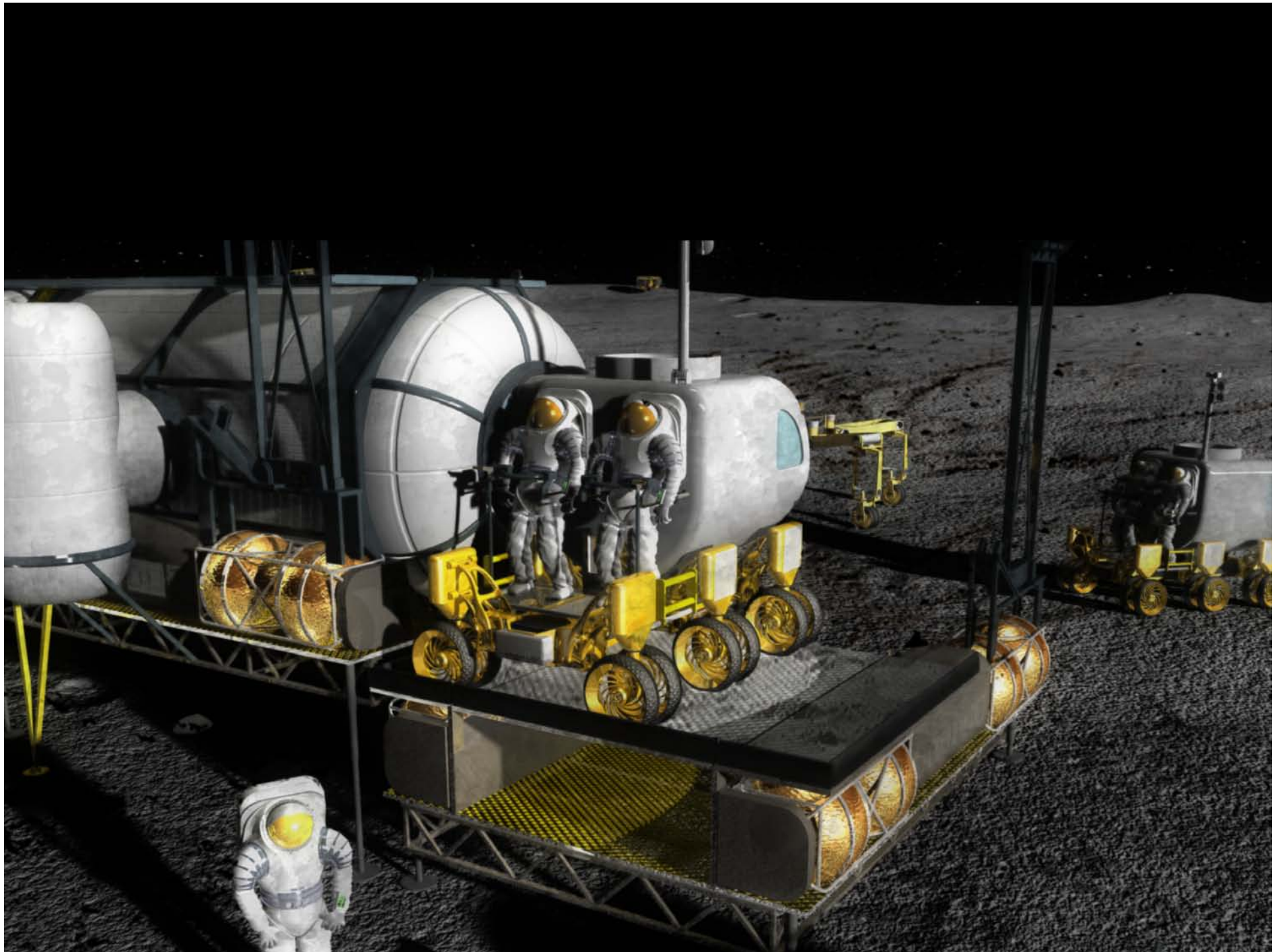
Image Credit: Boeing





NASA's Annual Budget as a Percentage of the Total Annual Federal Budget - FY 2008









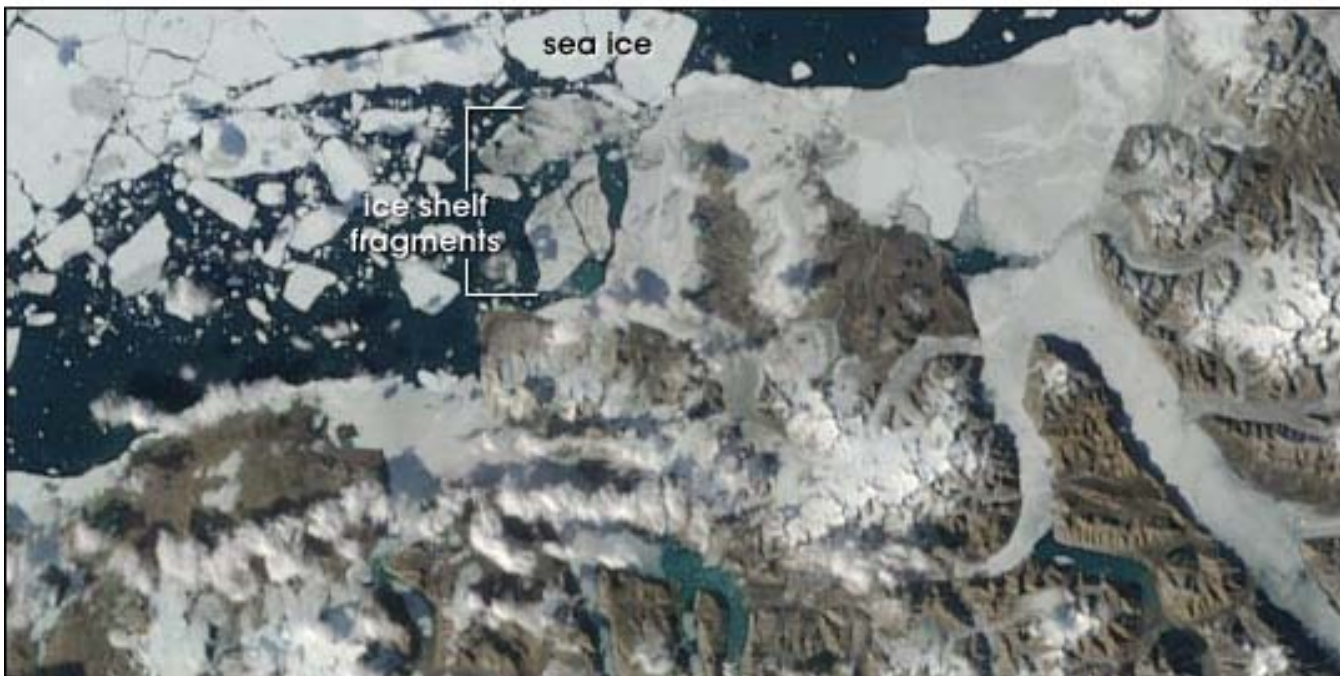




Hurricane Ike from International Space Station

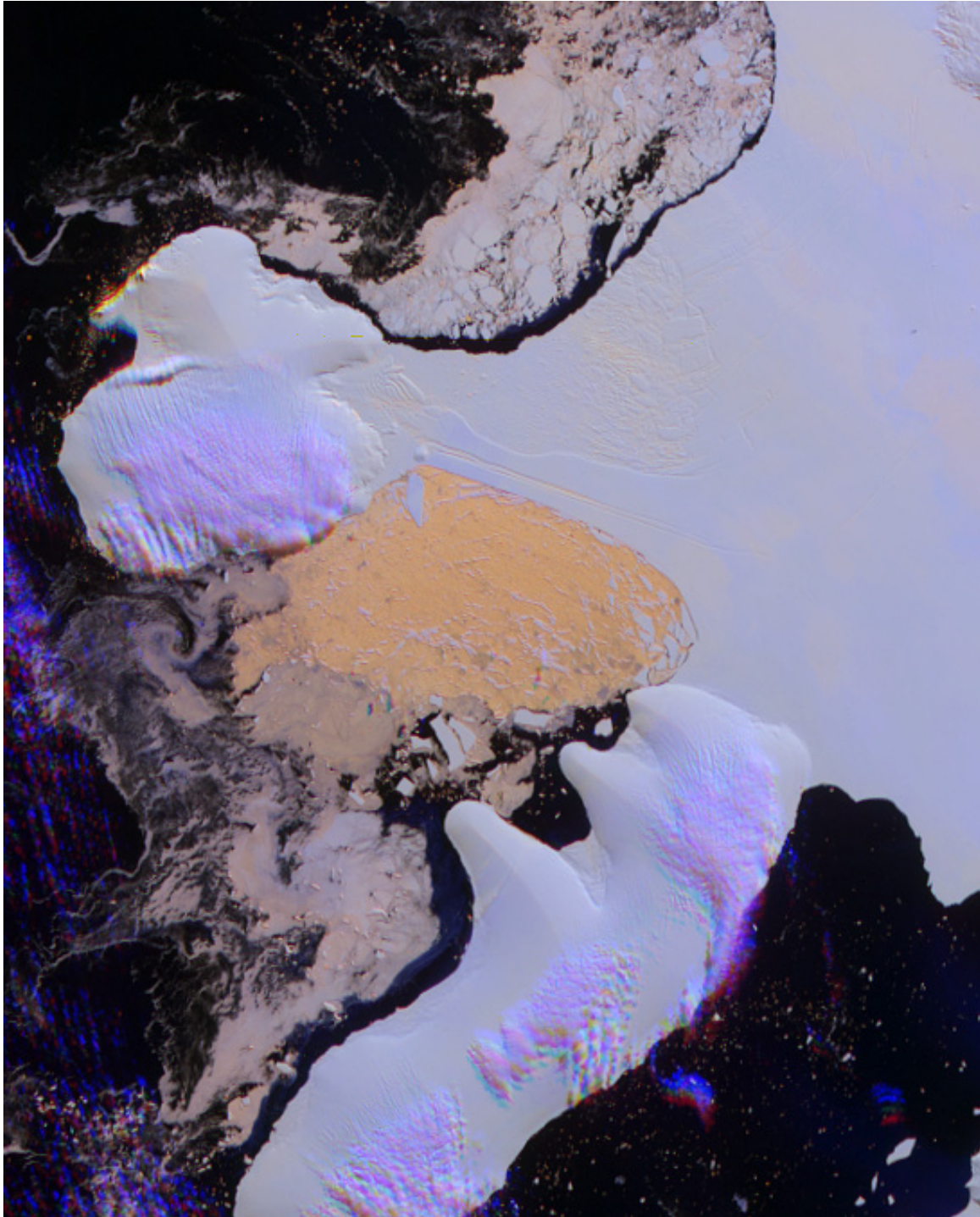


July 29, 2008



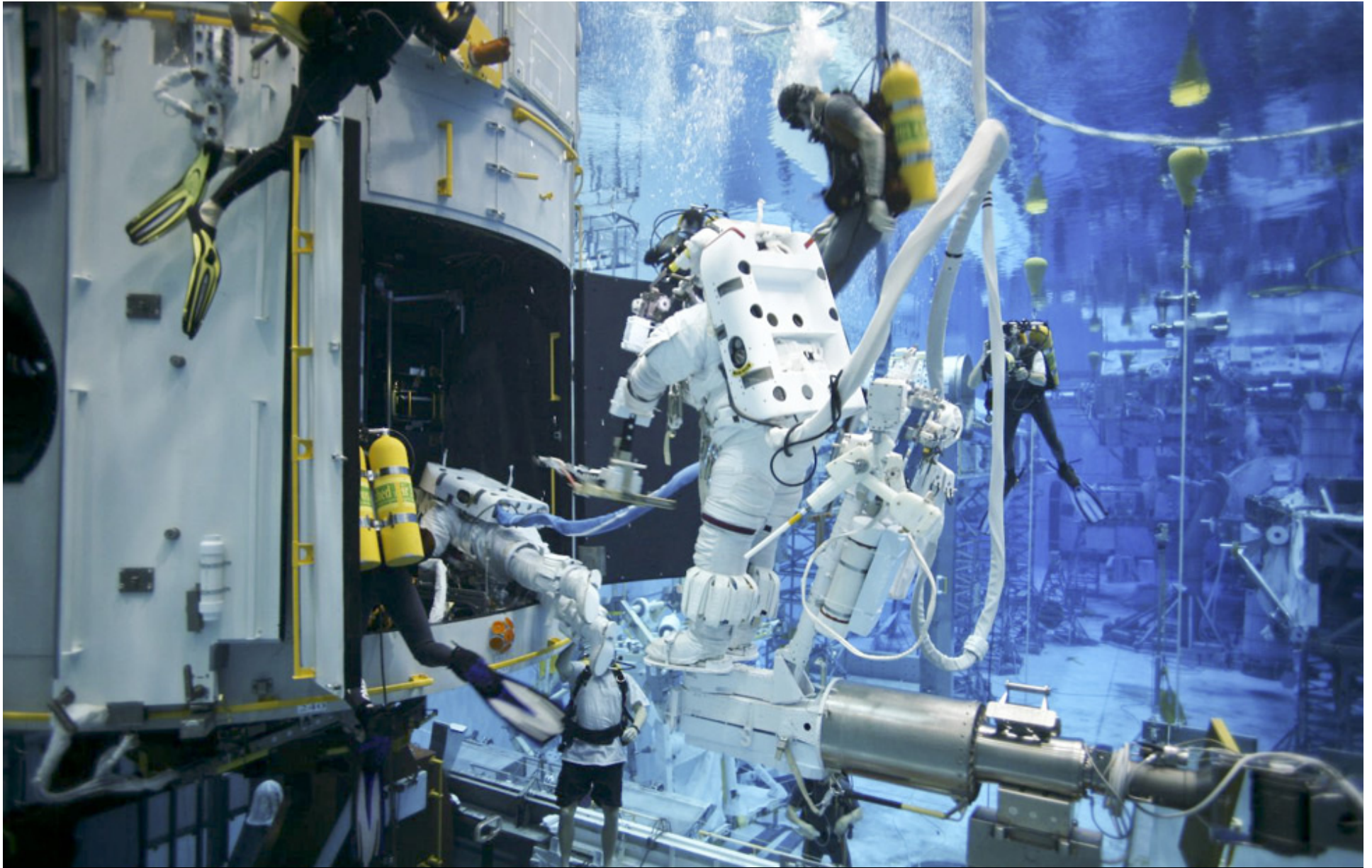
July 31, 2008

**Retreat of the
Serson Ice Shelf,
Canada
July 29 – 31, 2008**



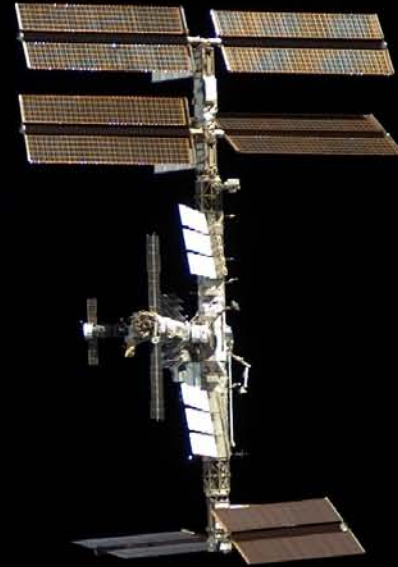
**Wilkins Ice Shelf
Collapse, Antarctica
March 17, 2008**





**Underwater Training for Next Hubble
Servicing Mission Scheduled: February 2009**

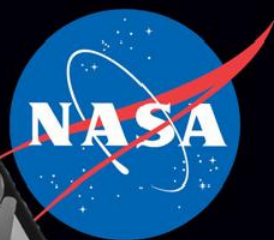
International Space Station



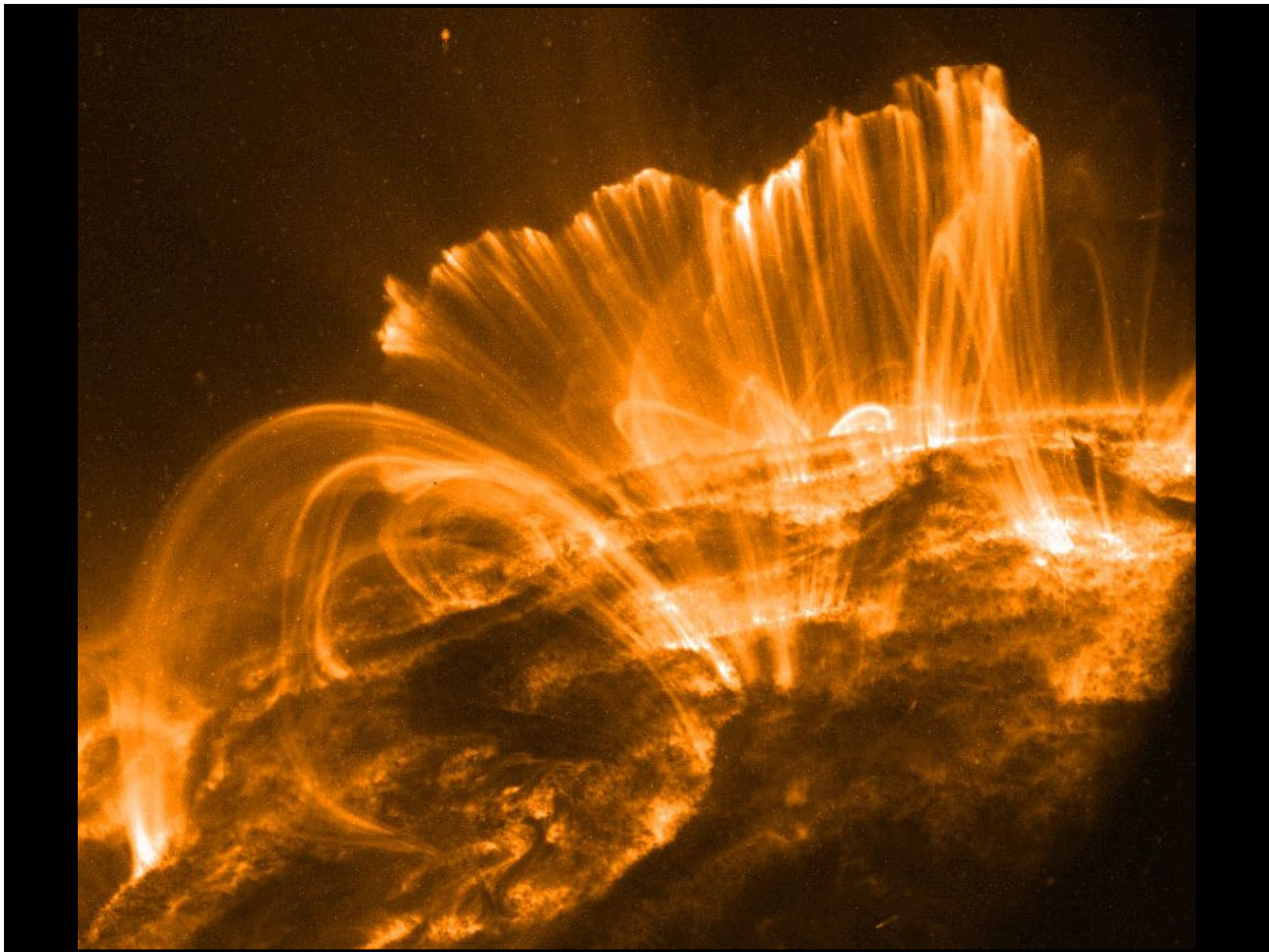
5

YEARS

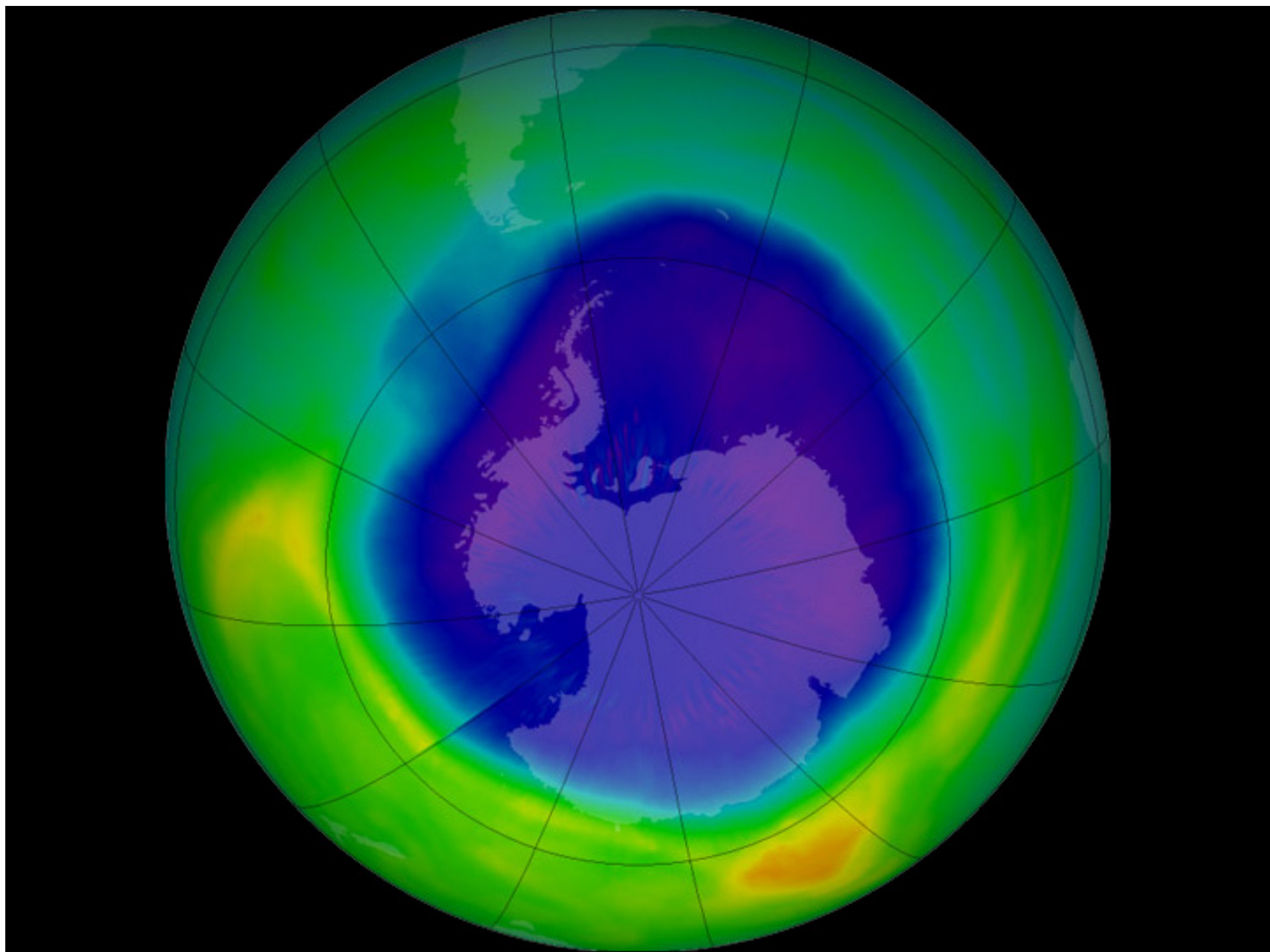
**Amateur Astronomer
Gordon Lyell of
Johnson City, Illinois**

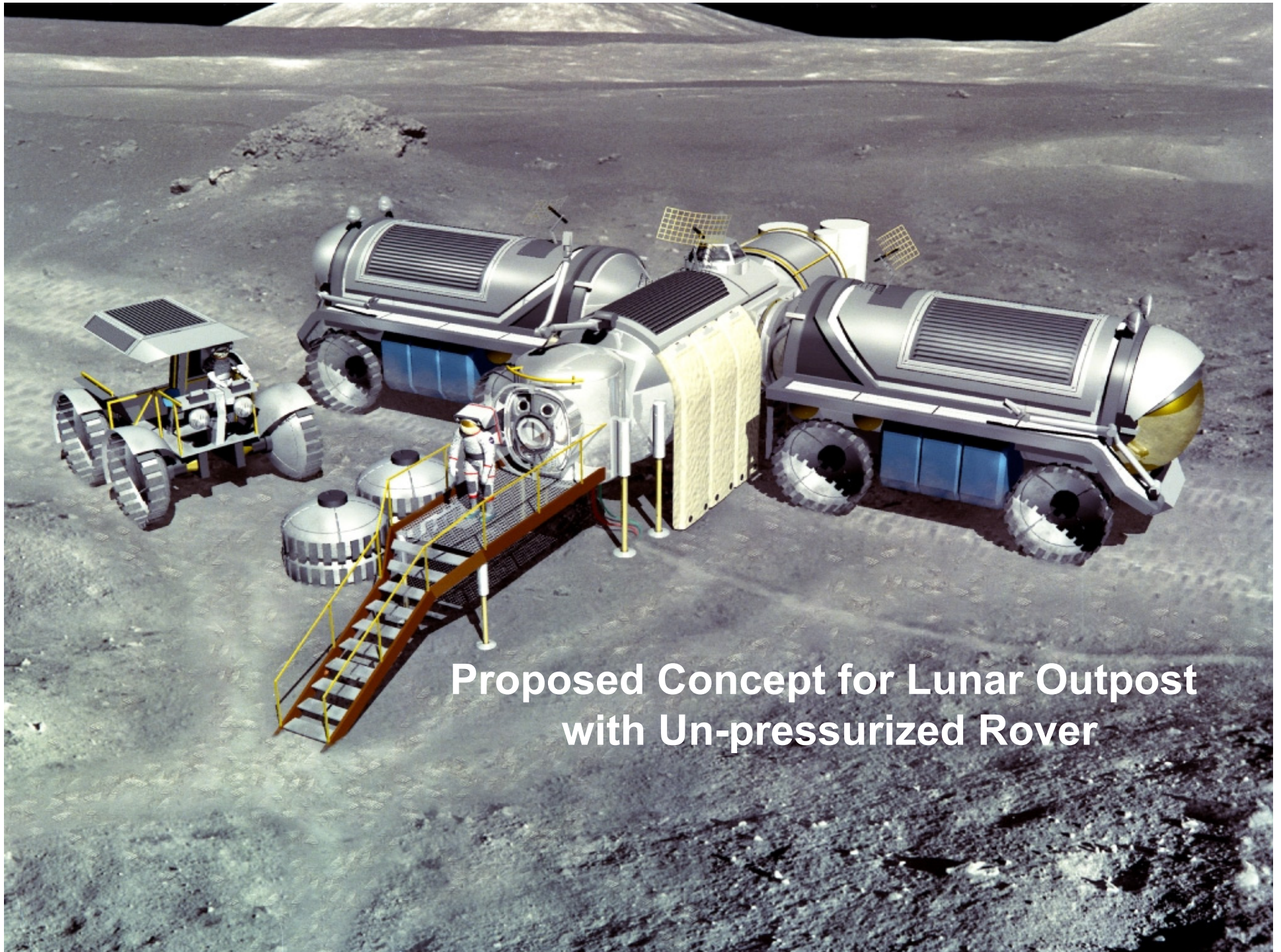


Of
Exploration
And
Discovery





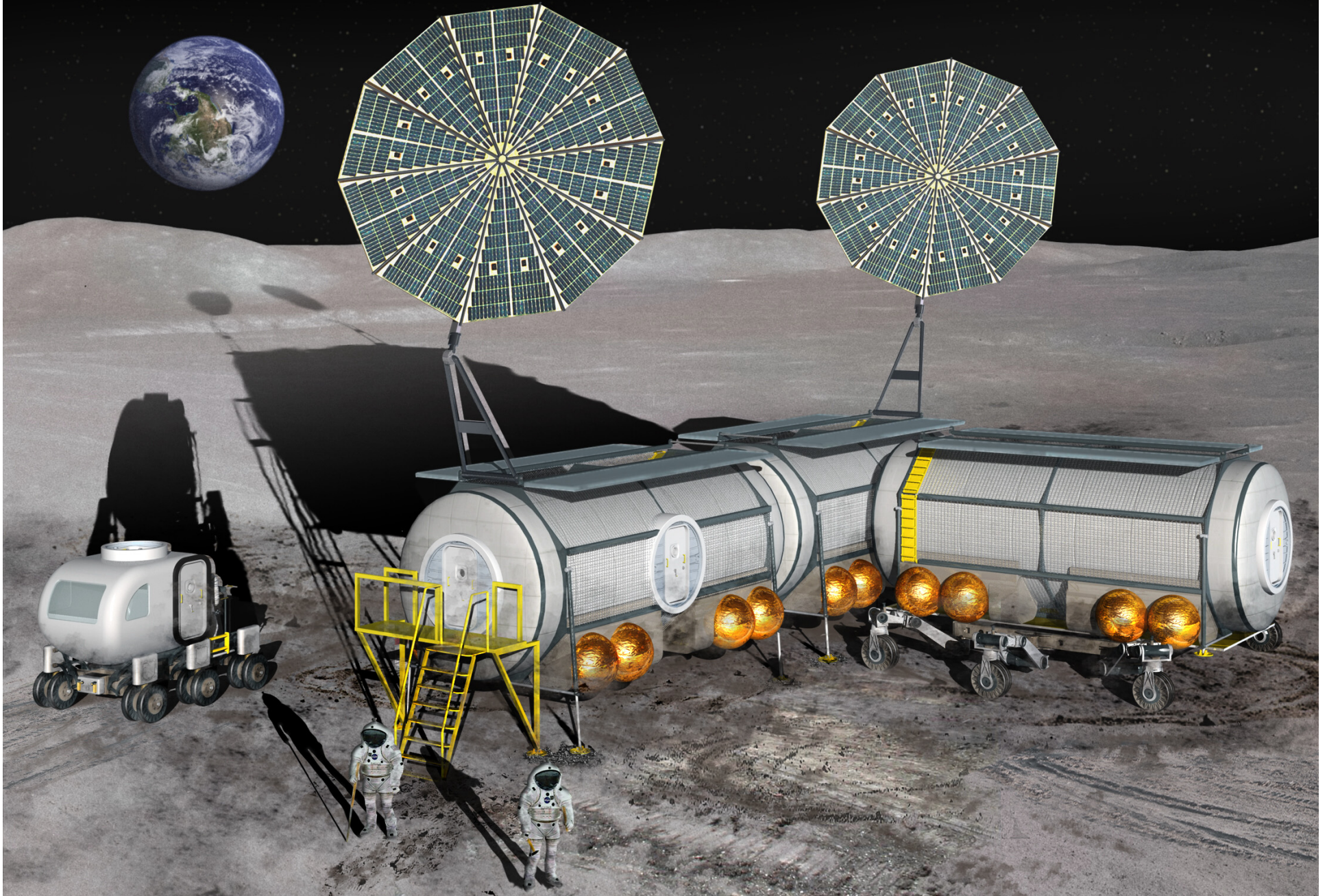


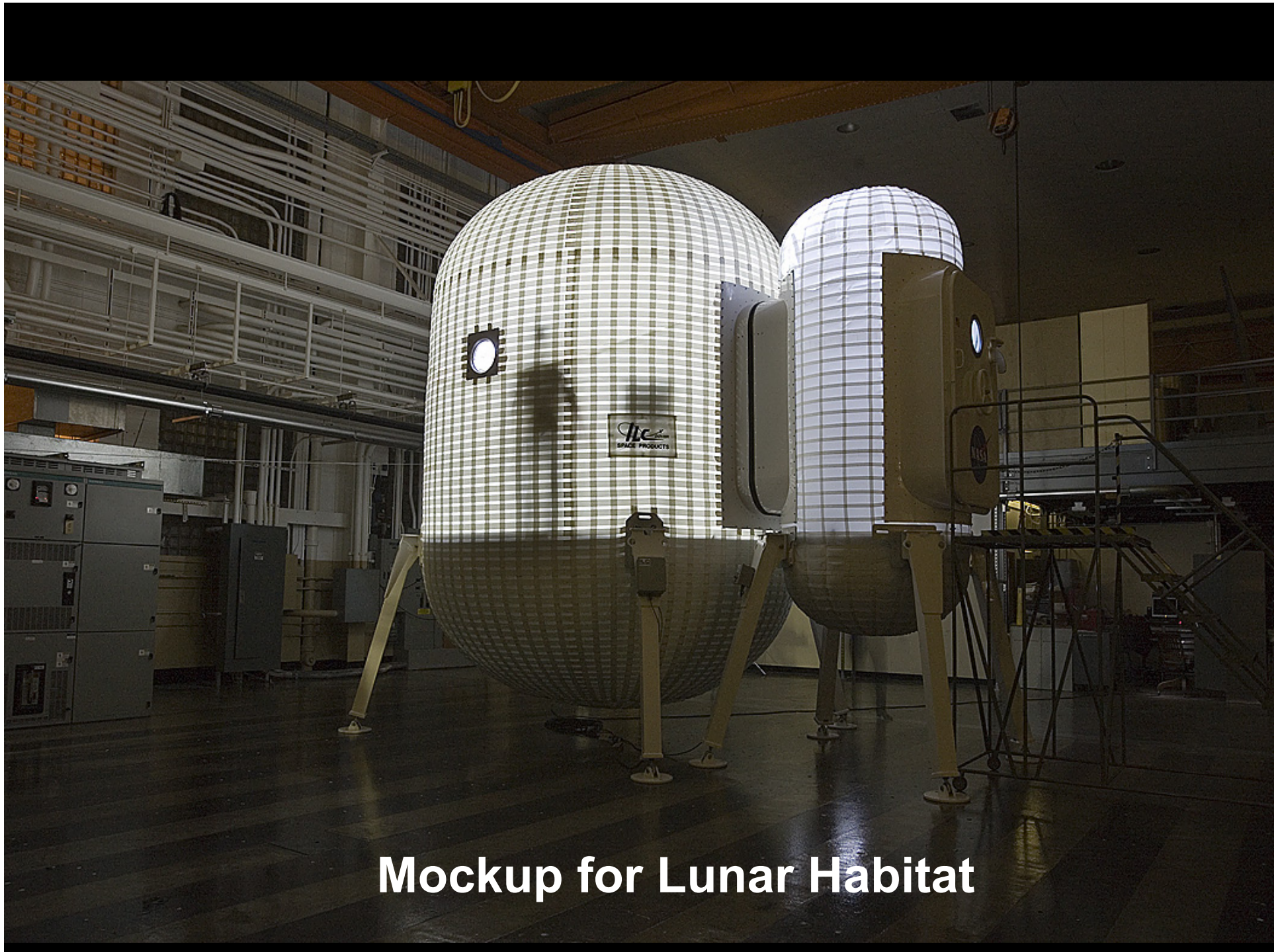


**Proposed Concept for Lunar Outpost
with Un-pressurized Rover**

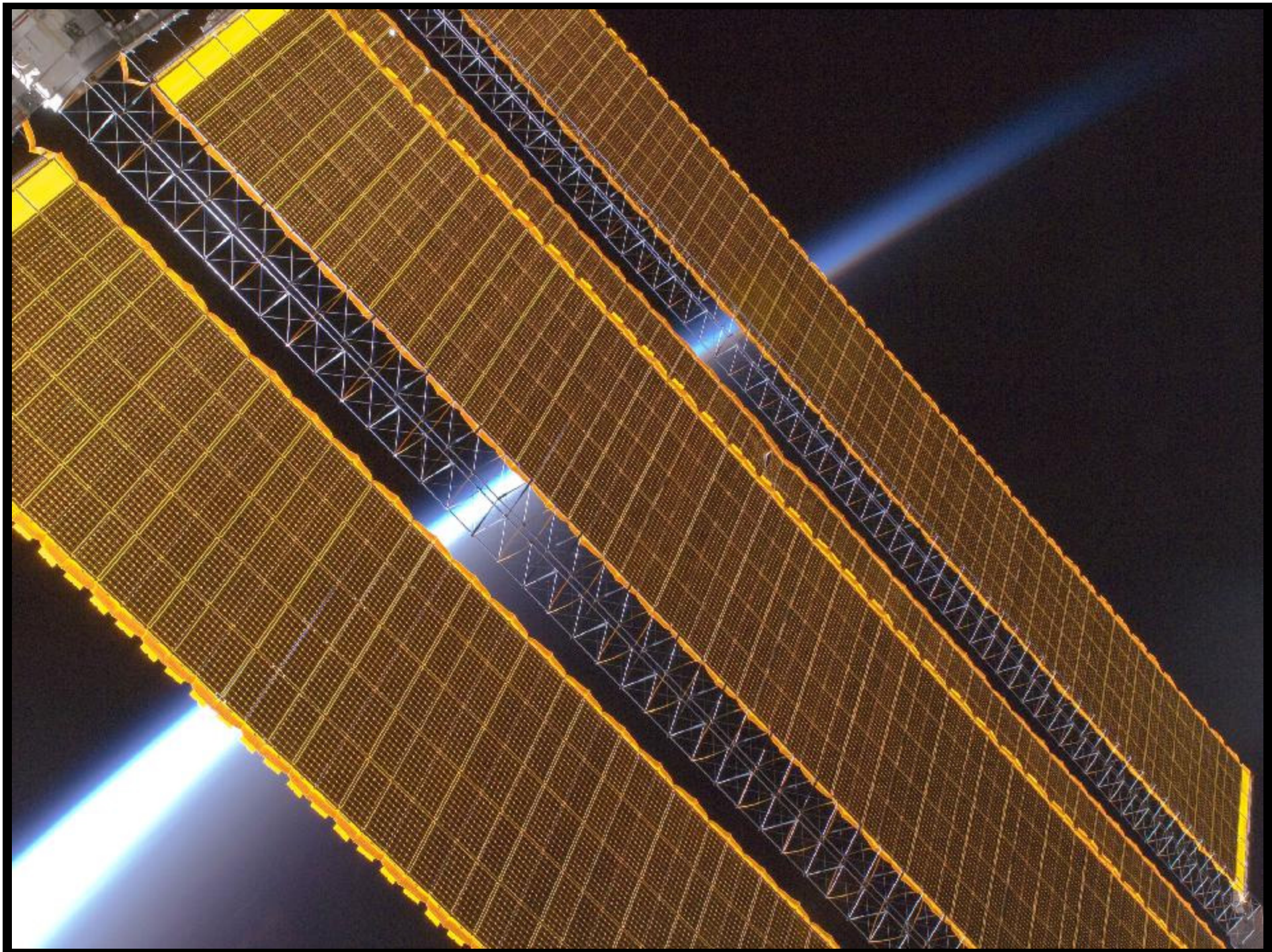


Proposed Concept for Lunar Outpost with Pressurized Rover





Mockup for Lunar Habitat

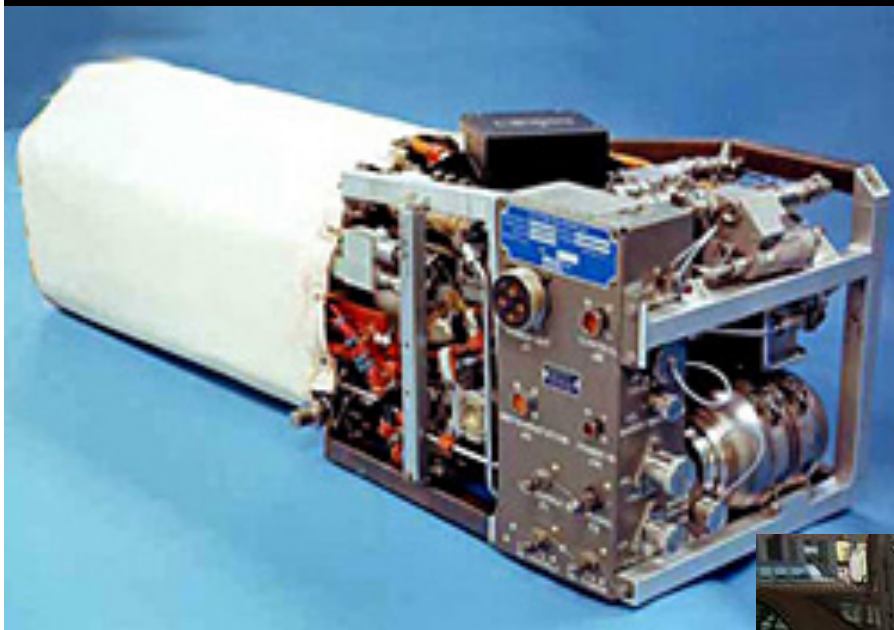






**Morning
Frost on the
Surface of
Mars as seen
by Phoenix
Lander,
August 14,
2008**





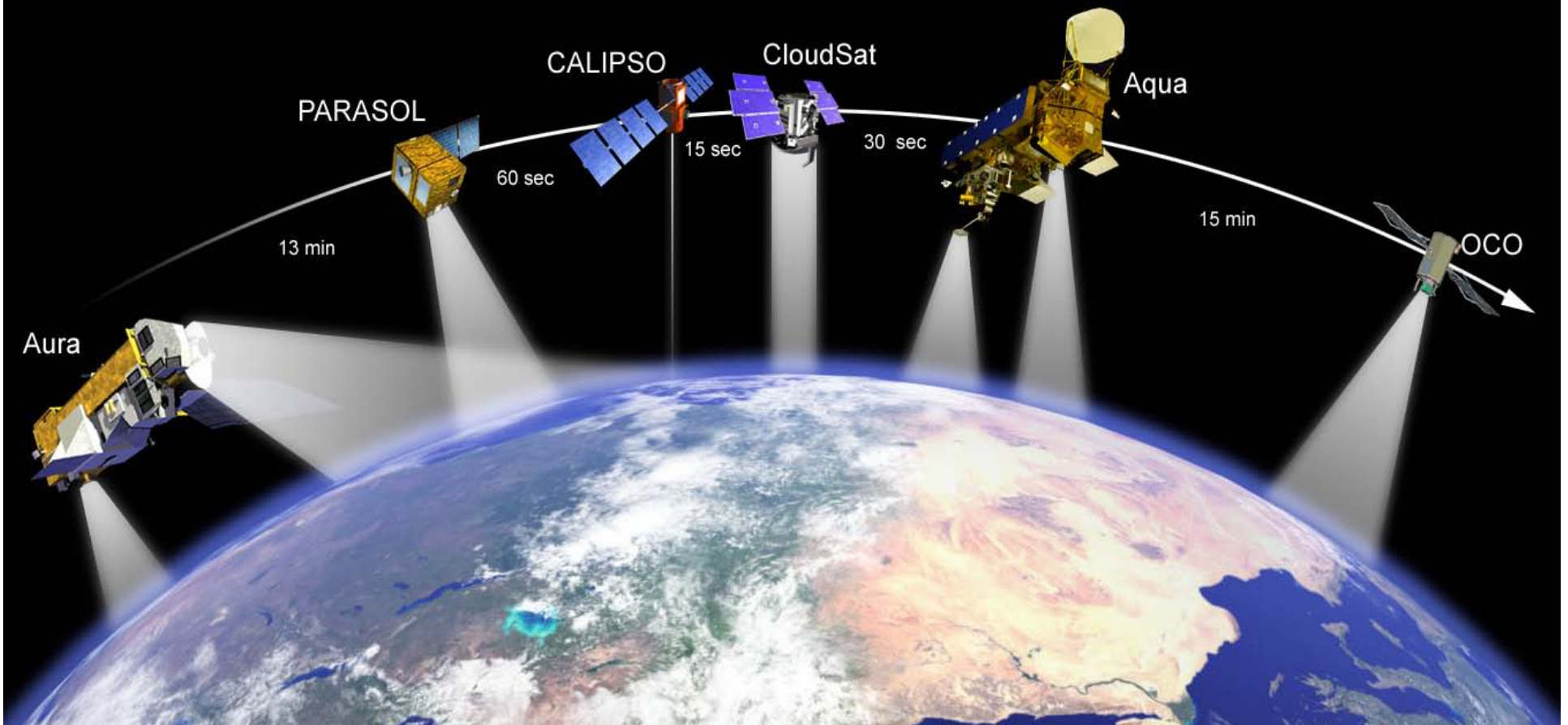
Fuel Cells



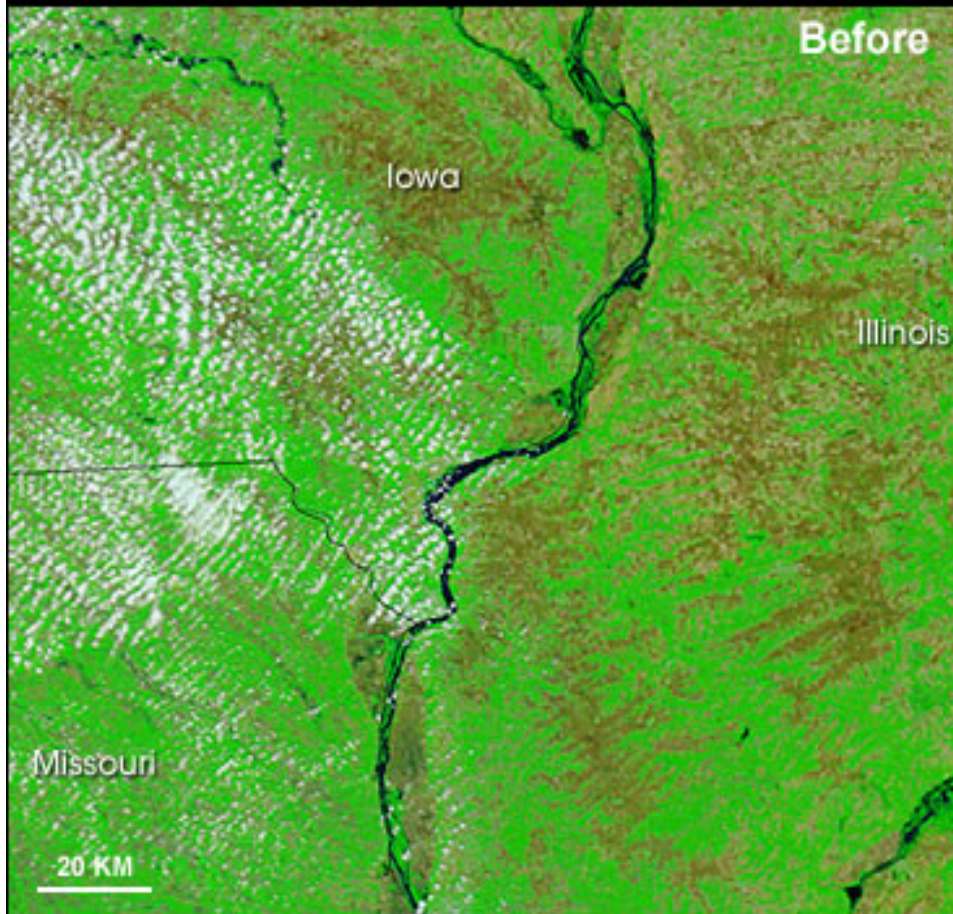




The A-Train



Iowa/Illinois June 2008 Flooding: Before and After Views from Space



June 10



June 19



August 13, 1979

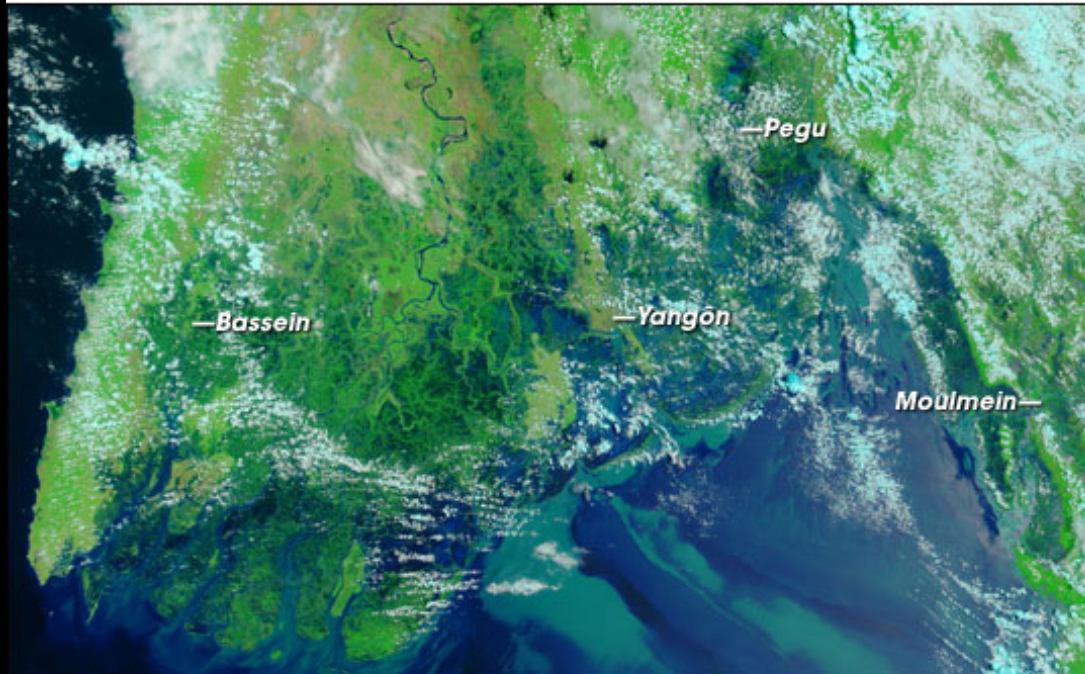


August 13, 2000

Penny Ice Cap, Canada Summer Changes 1979 to 2000

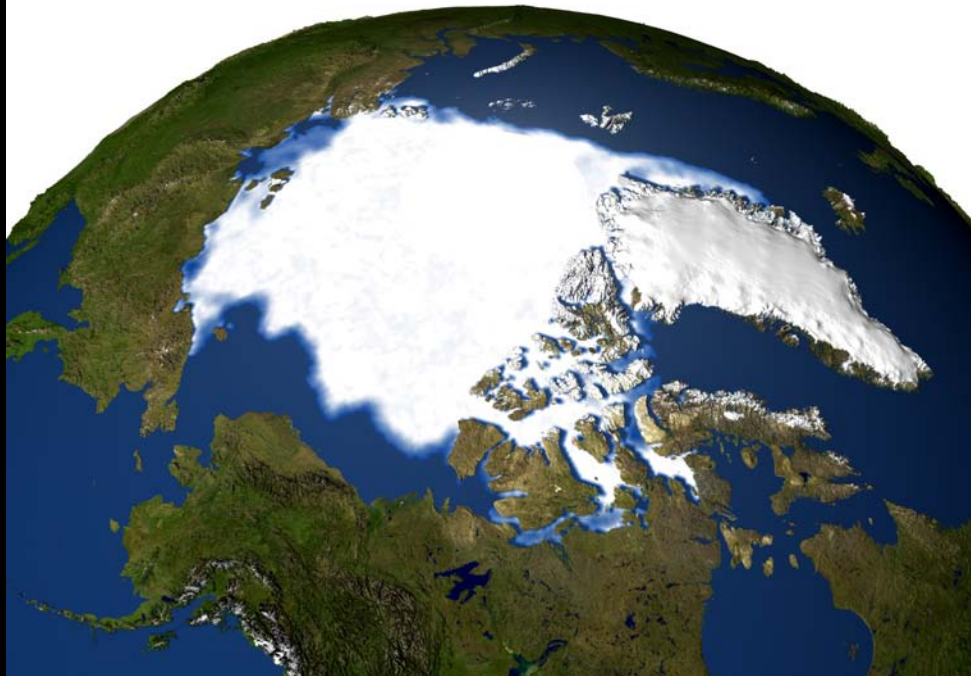


April 15, 2008

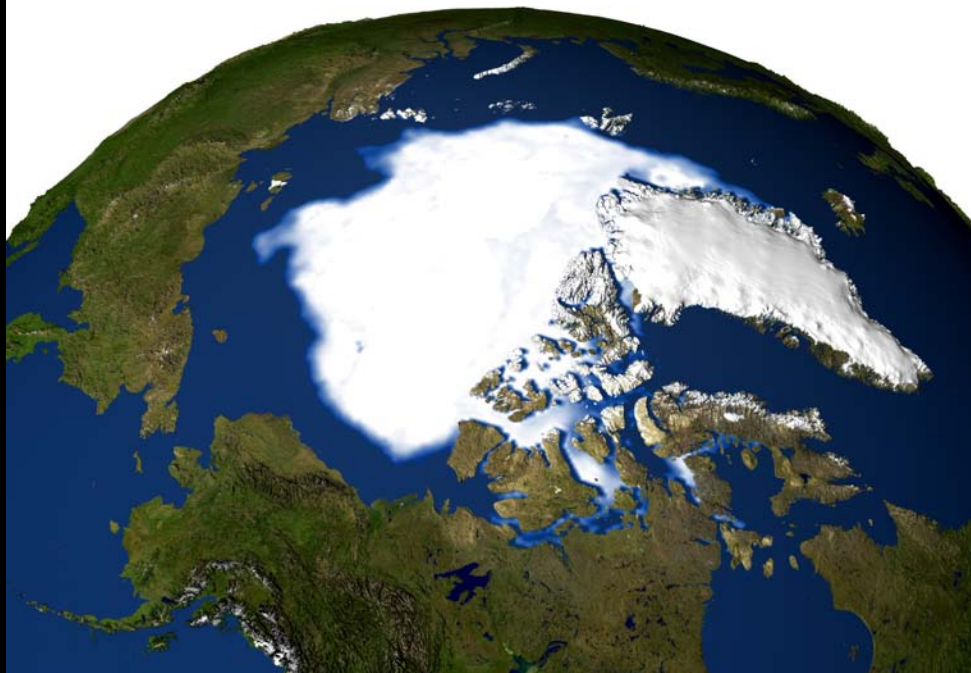


May 5, 2008

Before and After Images of Cyclone Devastation in Myanmar

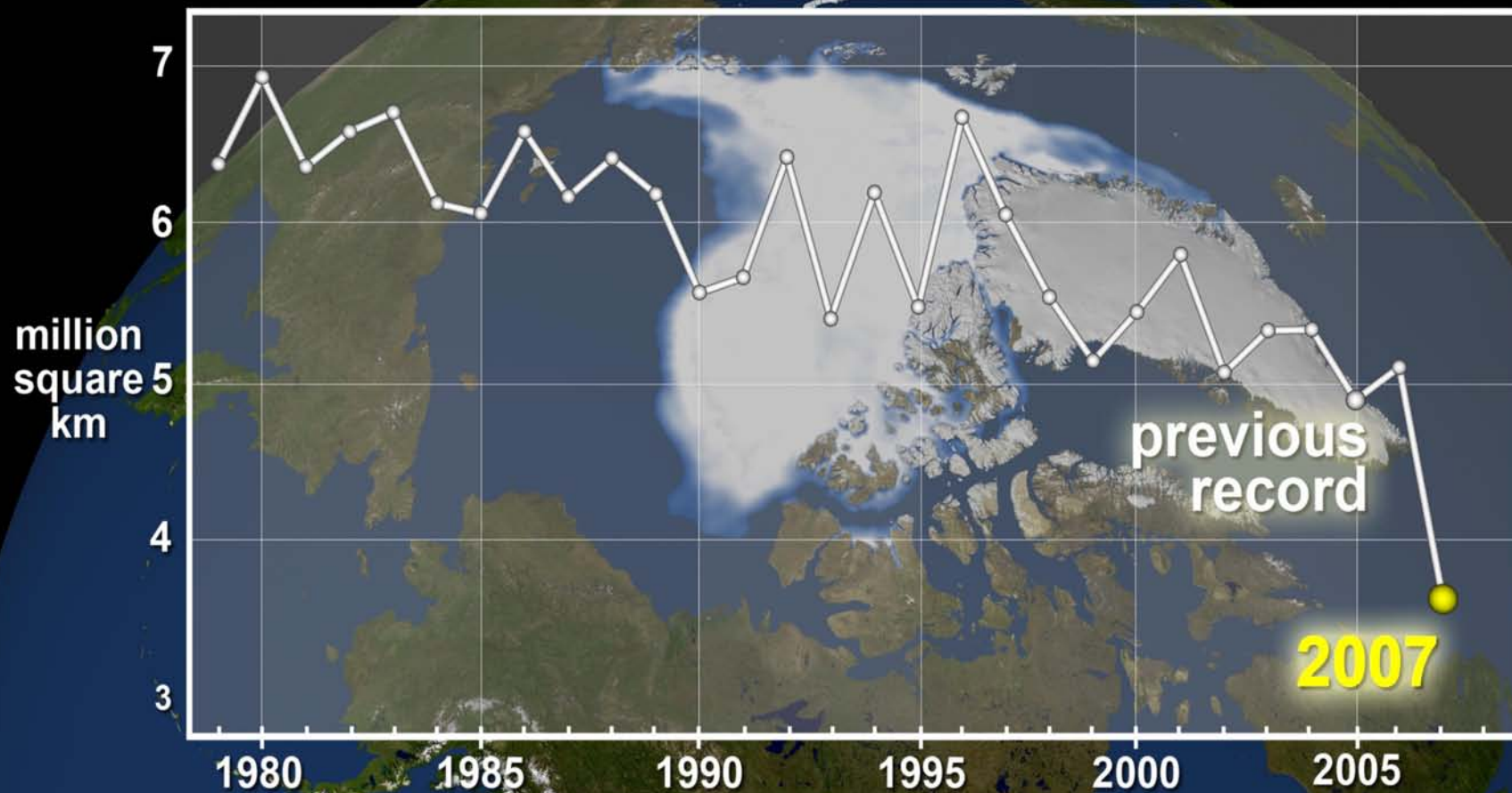


**Sea Ice Minimum
1979**



**Sea Ice Minimum
2005**

Annual Sea Ice Minimum

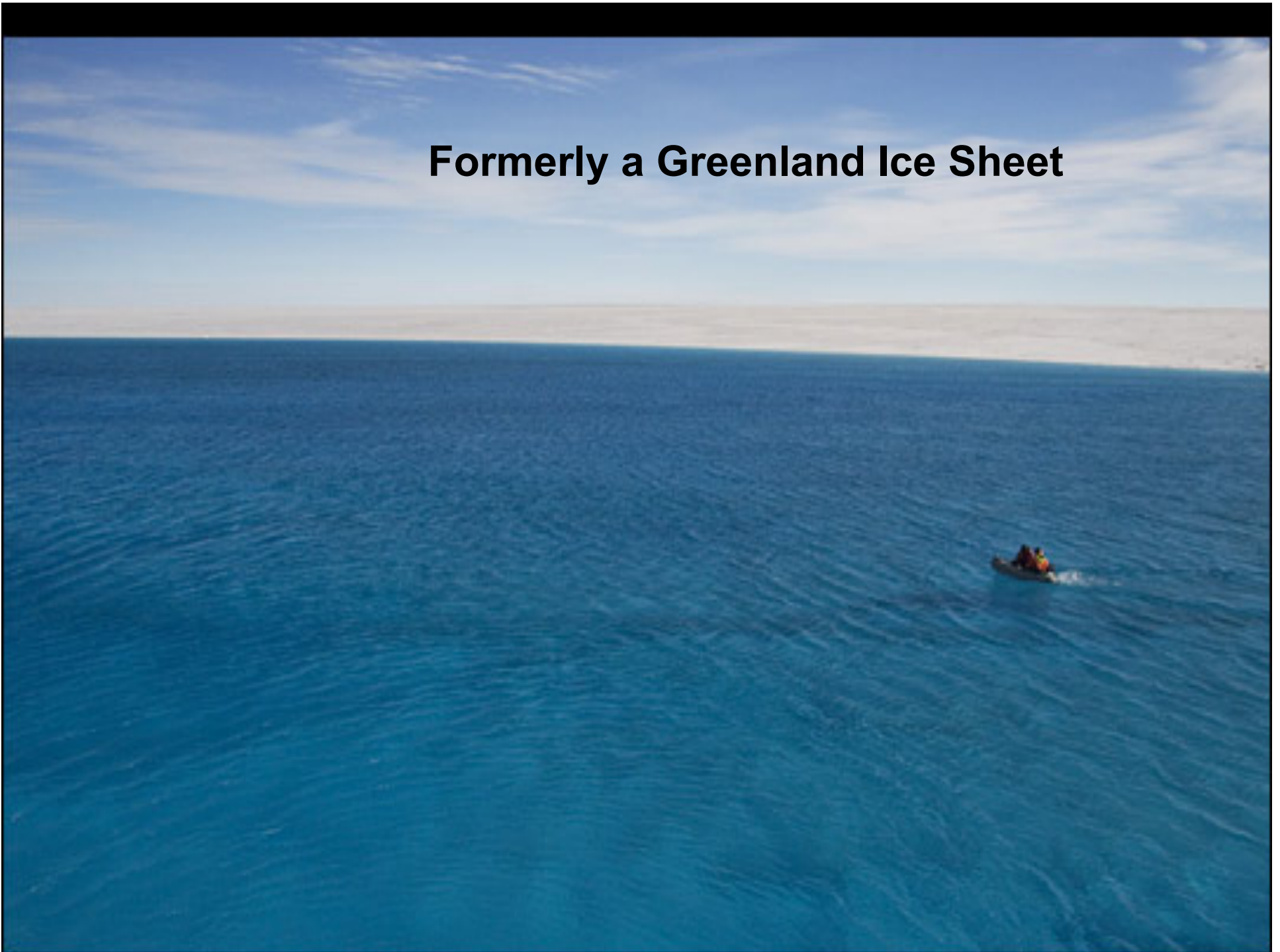


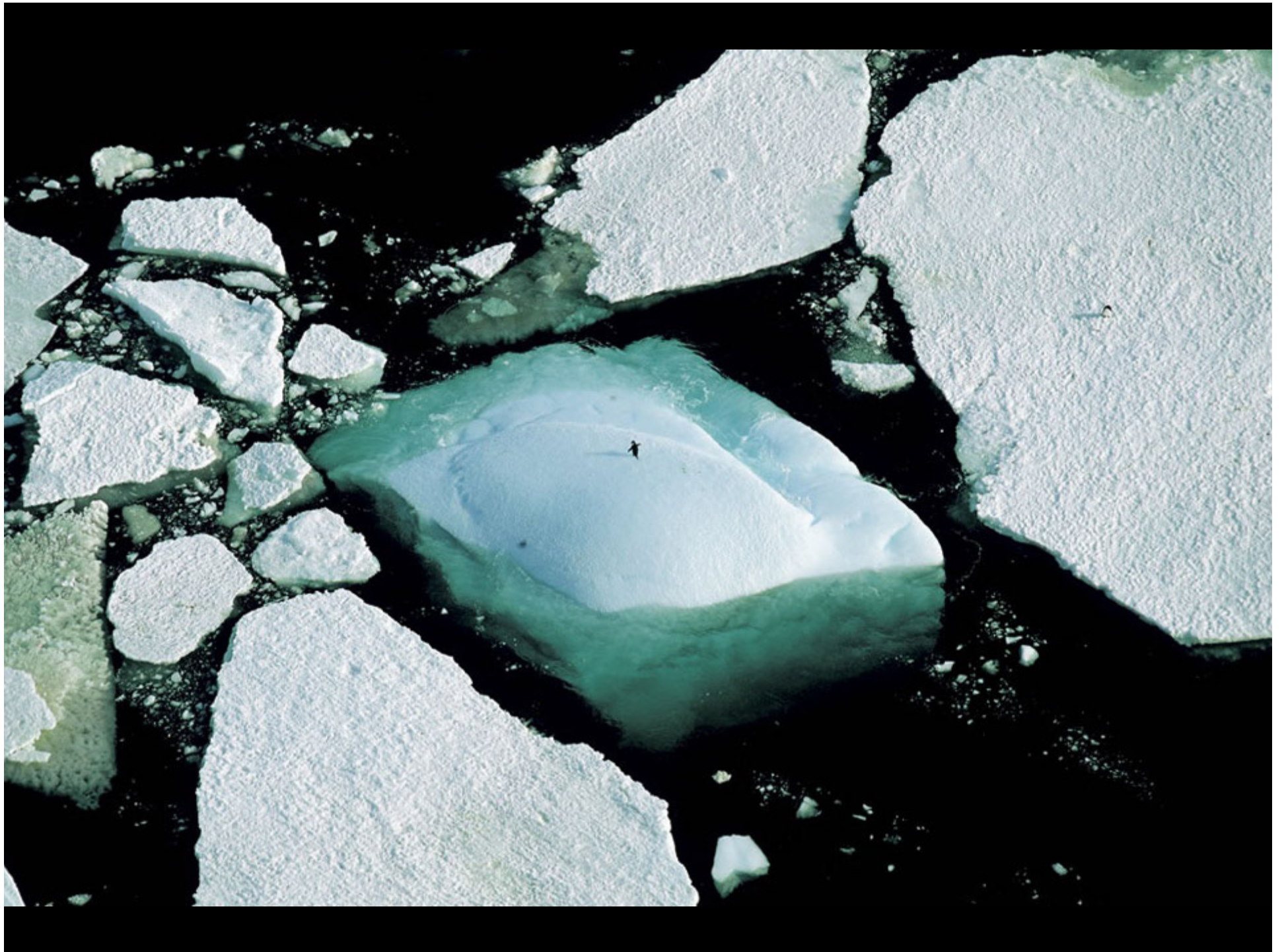


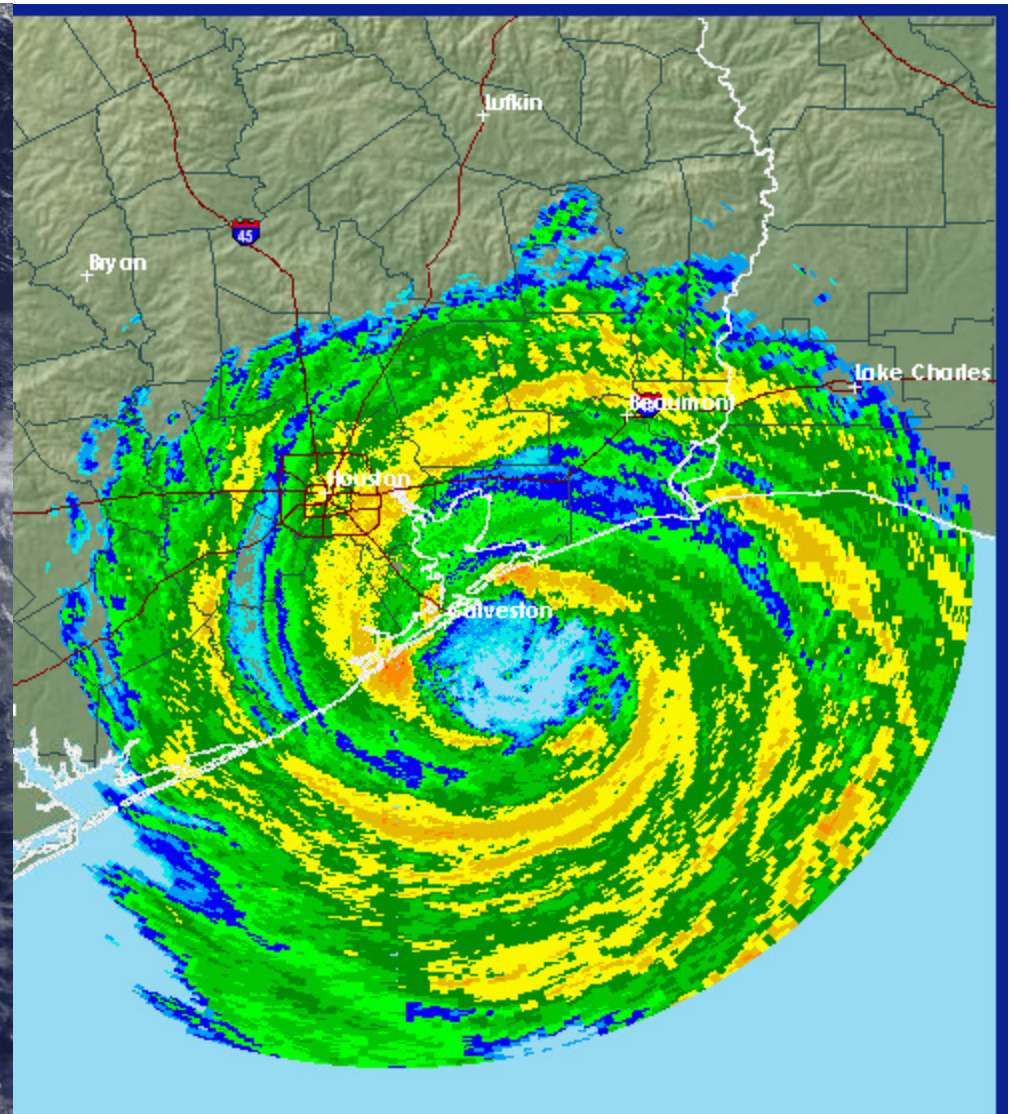
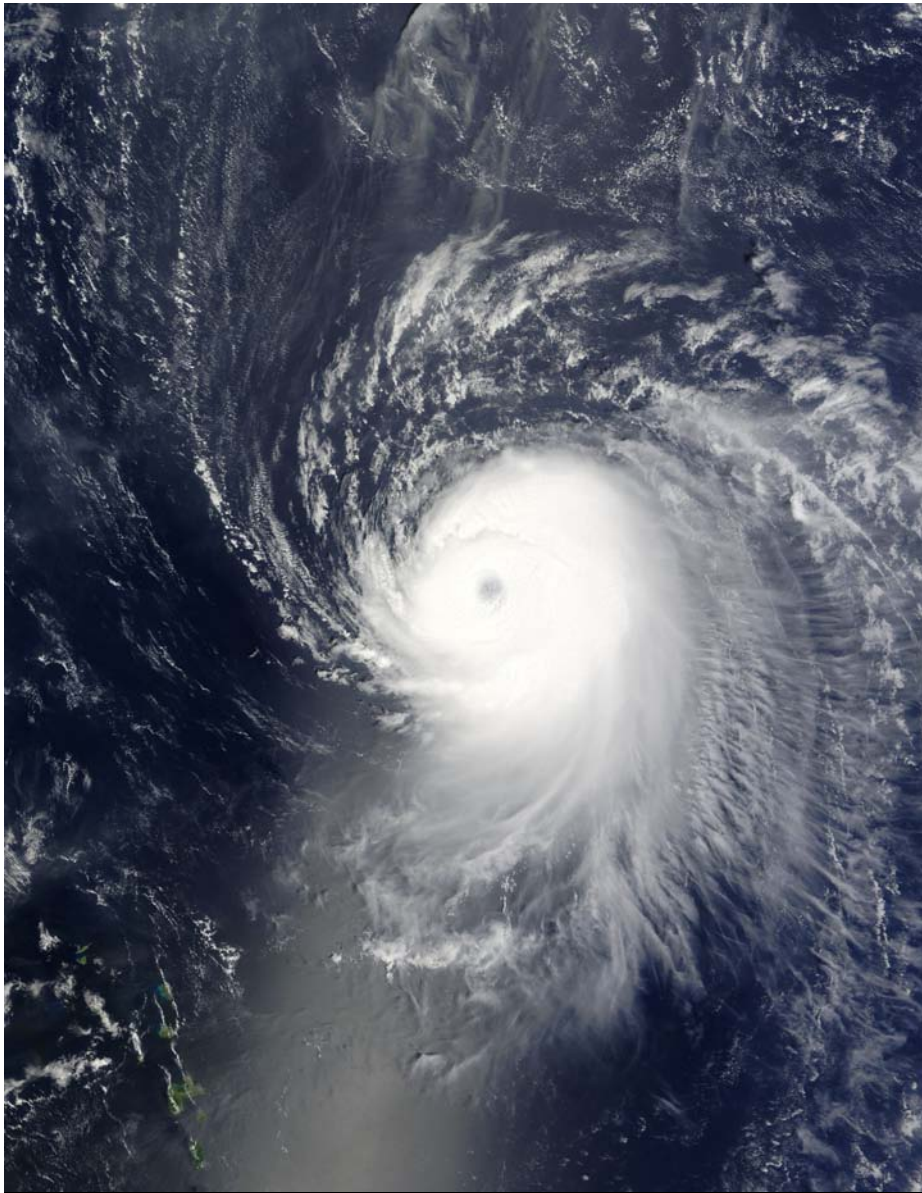
Greenland's Retreating Ice Sheets



Formerly a Greenland Ice Sheet







Hurricane Ike: September 13, 2008

Examining Earth to save the future









**Scalloped Edge of Engine Nozzle
Reduces Engine Noise**



NASA'S FUTURE FORUM

***“Space exploration is about
imagining the future.”***

Chicago

Tomorrow on other worlds



A photograph of the Martian surface as seen from the Phoenix Mars lander. The foreground shows the metallic surface of the lander with a circular "Messages from Earth" sticker, a small American flag, and a solar panel on the left. The background is a vast, reddish-brown landscape covered in fine soil and numerous small, dark rocks of various sizes.

Martian soil outside Phoenix Robotic Arm





Inspiration

Innovation

Discovery

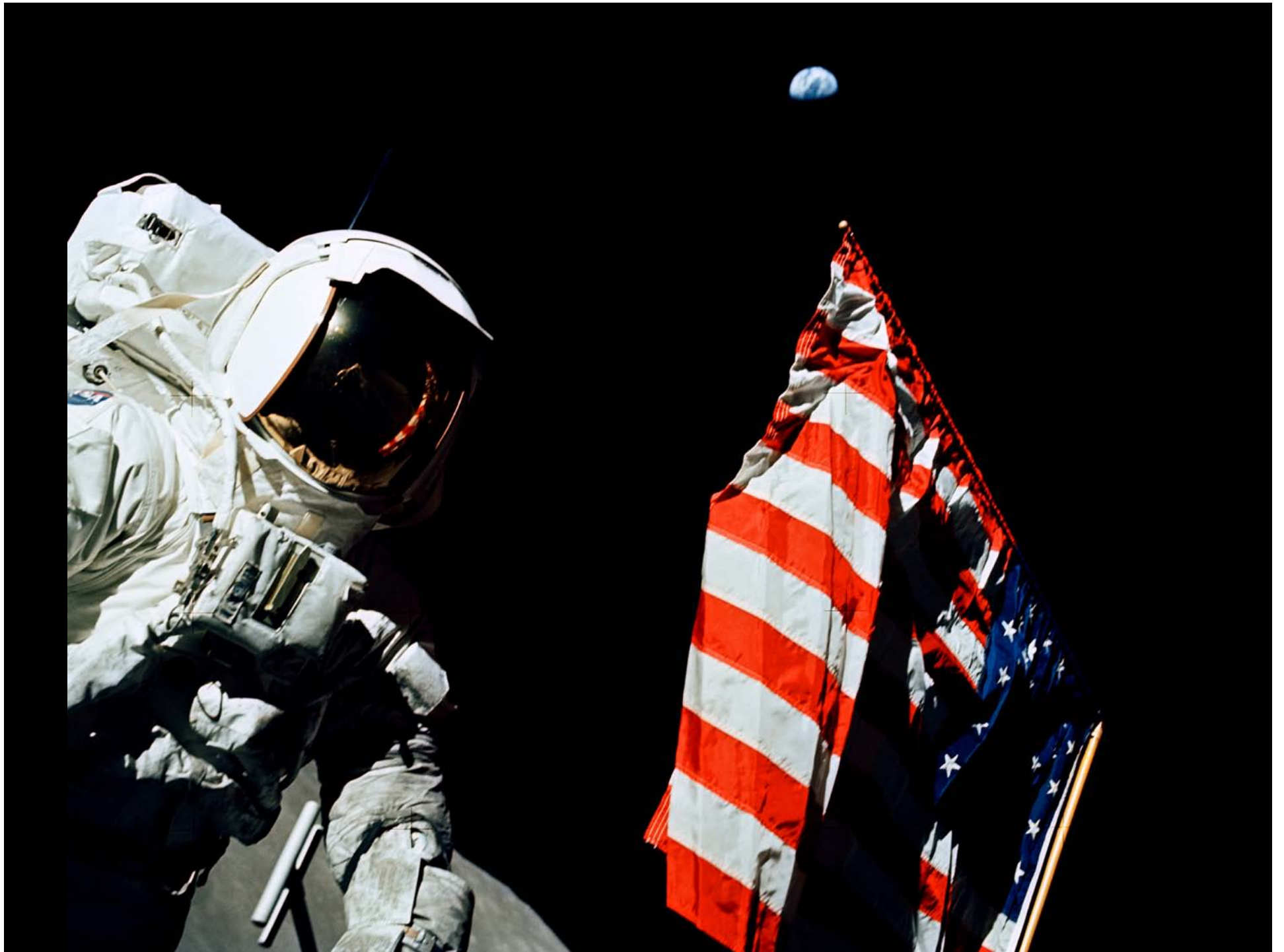
...Future



**Results from
MESSENGER's
Second Mercury Flyby**

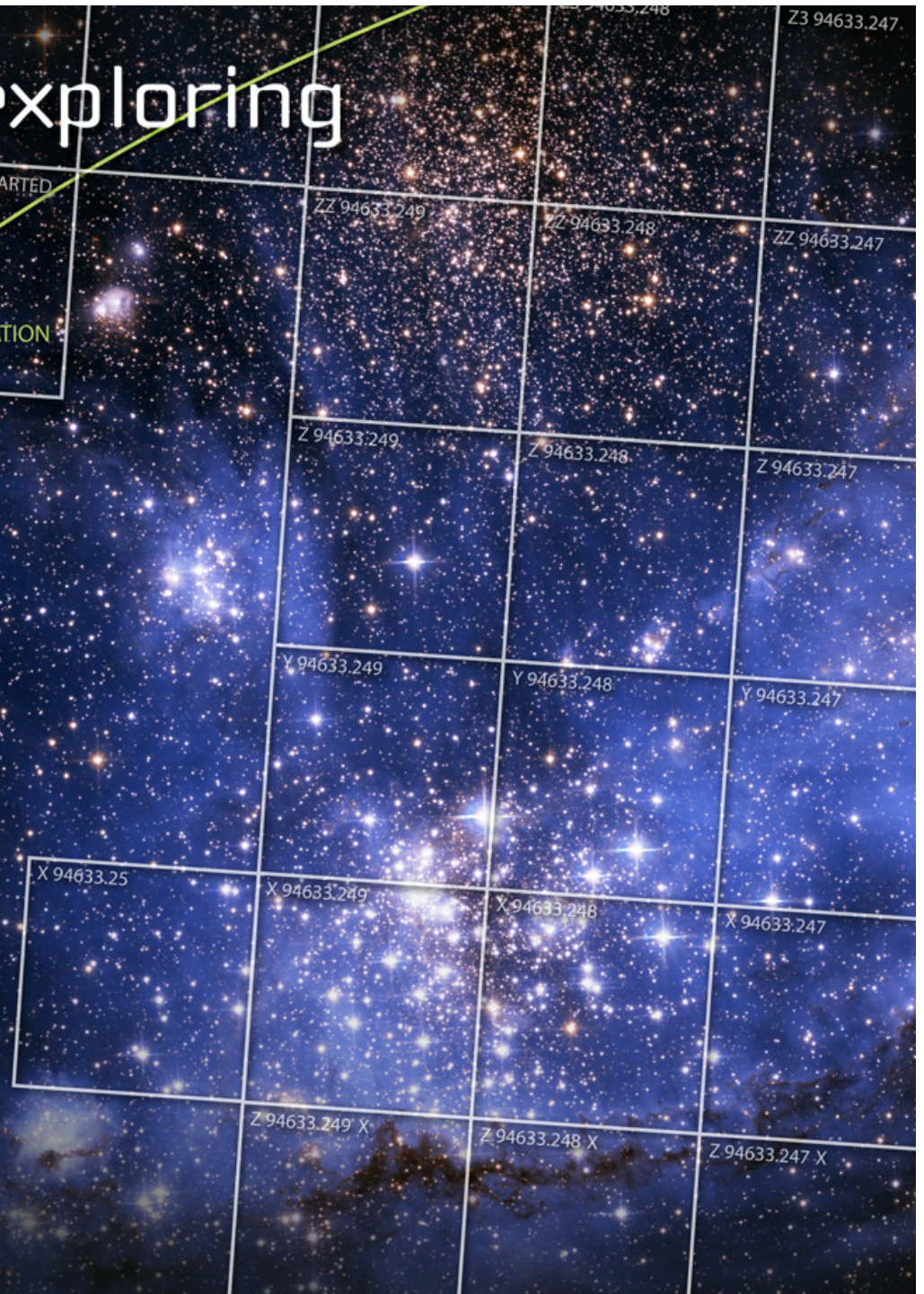


Sun peeking above Earth's Horizon photographed with a digital still camera from the Space Shuttle Columbia's last mission.



We'll never stop exploring

U
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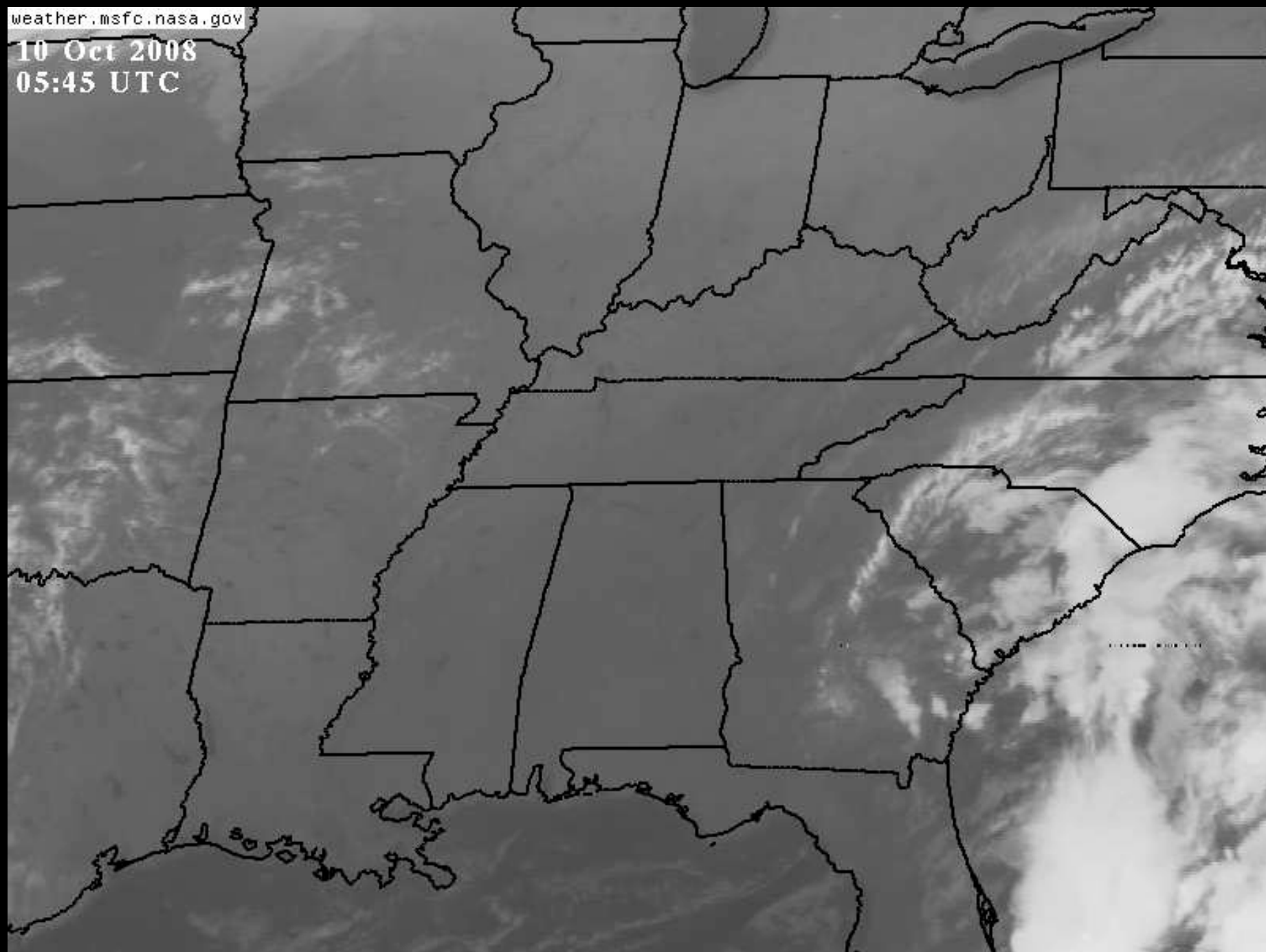


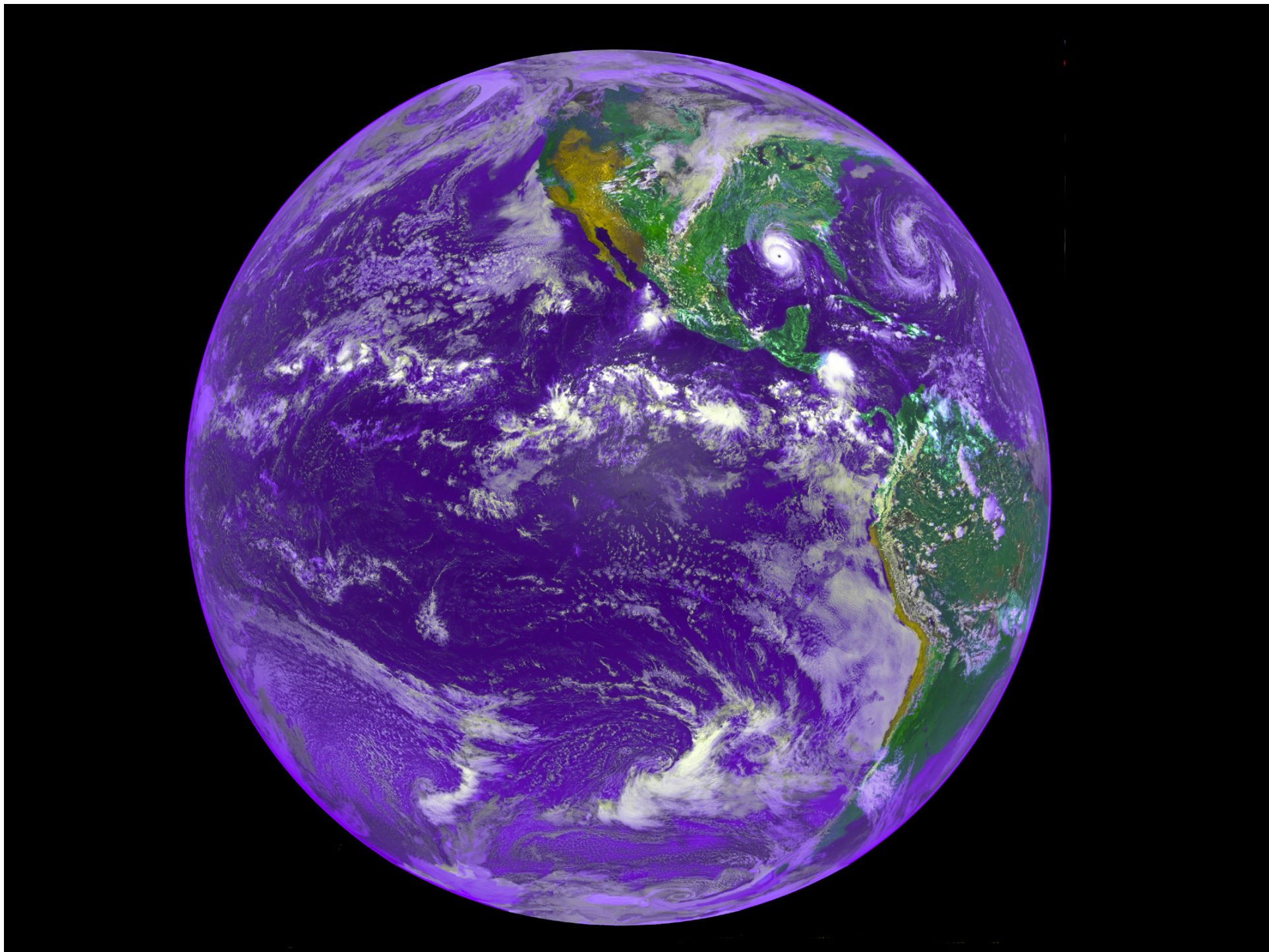




weather.msfc.nasa.gov

10 Oct 2008
05:45 UTC







NASA'S FUTURE FORUM

The Honorable Shana Dale
NASA Deputy Administrator

Chicago



NASA'S
FUTURE FORUM

ADLER
PLANETARIUM

Chicago